

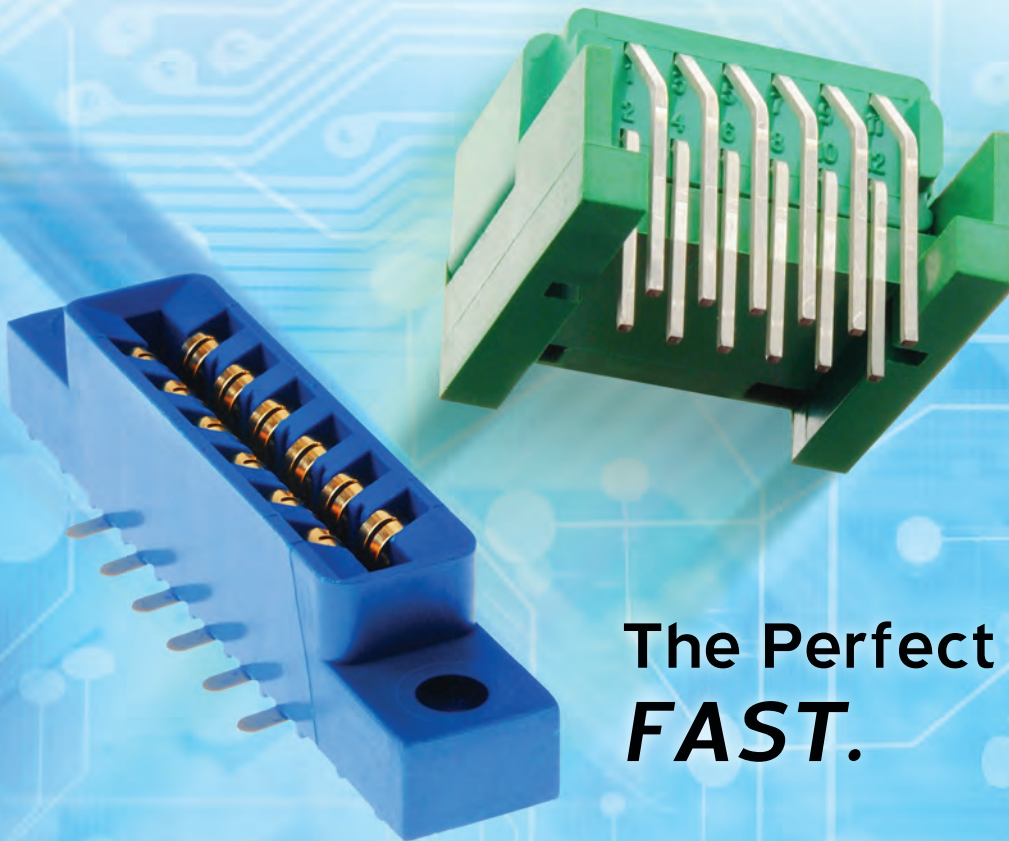
SULLINS

MICROPLASTICS

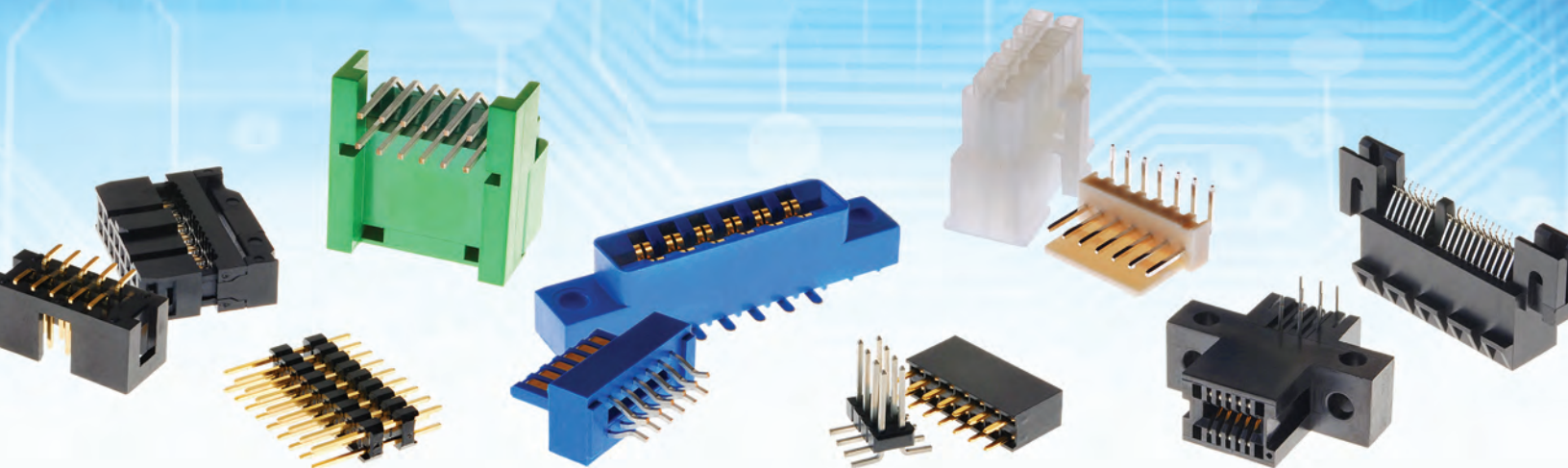
2011 Catalog



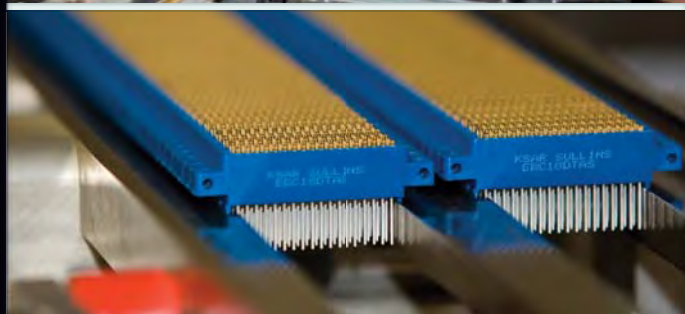
SULLINS
CONNECTOR SOLUTIONS



The Perfect Fit.
FAST.



Infratron®



The Sullins Advantage

Sullins Builds Solutions

Need a standard connector or a special one built to your specifications? We'll help you get the perfect fit-fast! And we offer more design choices than any competitor out there.

High Quality Connectors

Our in-house manufacturing facility in California employs the latest production methods and rigorous quality control to deliver reliable, high quality connectors every time.

Five-day Turnaround*

We strive to deliver your order within five business days so you can spend time on more important things.

Technical Expertise

Sullins' team of applications engineers and technical experts is always ready to help you develop the best solution for your specific application, tackle complex engineering challenges, and provide you the resources you need to bring your project to life.

RoHS Compliant

Being good to the environment is important to us and our customers. That's why we only use RoHS compliant parts in all our products.

* While our average delivery time is within five business days, some connector designs with more customized specifications may require additional time to complete.



Applications for Sullins Connectors:

- Burn-in and Test Systems
- Electronic Component Testing
- Burn-in Boards
- High Power Device Testers
- Highly Accelerated Life Test
- Semiconductor Testing
- Communications Equipment
- Medical Equipment Instrumentation
- Power Converters and Power Supplies
- Aerospace
- Automotive
- And more...

The Sullins Advantage

- Five-day Lead Time*
- Free Samples – Fast!
- High Quality and Reliable Connectors
- Engineering Design and Technical Support
- Connector Experts at Your Service Assist with Specific Project Requirements
- Design and Build Custom Parts to Suit Your Needs
- RoHS Compliance



Order Samples and Products.



Hi-Temp Connectors

Features:

Hi-Temp Male Headers **NEW!**

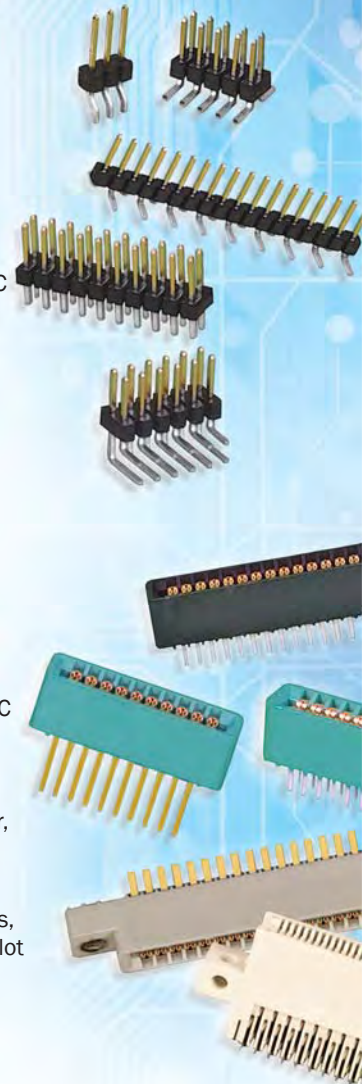
- Operating temperature range of -65 °C to +150 °C
- Support solder reflow process up to 260 °C peak for 120 seconds max
- Comes in single and dual row configuration with 1 to 36 pins per row
- Available in straight and right angle through-hole, as well as vertical and horizontal surface mount terminations
- Comes in various plating options, including full gold, selective gold, and pure tin

Hi-Temp Card Edge Connectors

- Operating temperature range of -65 °C to +250 °C
- Available in 1.0mm, 0.050", 0.100", 0.125", and 0.156" contact centers with 2-120 pins per row
- Choices of termination types, including dip solder, wire wrap, right angle, and card extender
- Large selection of mounting styles, including clearance holes, flush mounting, threaded inserts, straddle mount, floating bobbin, and open card slot
- Comes in various plating options, including full gold, selective gold, and pure tin

Benefits:

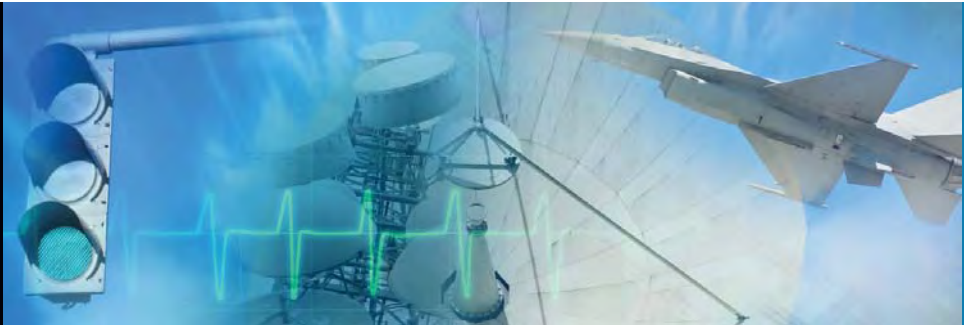
- Available in temperatures up to 250 °C for demanding thermal applications
- Features high mating cycle for all our connectors for long-lasting usage
- Large variety of male/female gender, contact centers and termination styles allow maximum design flexibility for various board-to-board applications
- RoHS-compliant and UL94V-0 rated



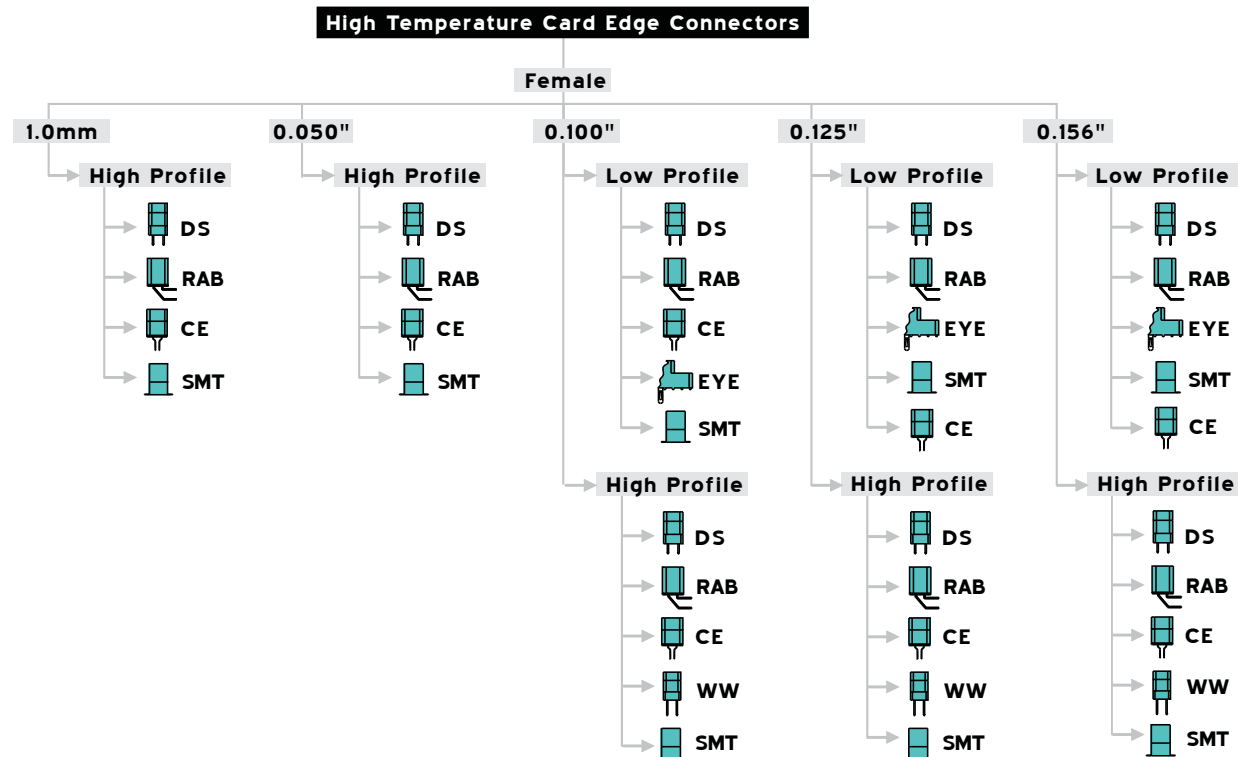
*More customized specifications may require additional time to complete.



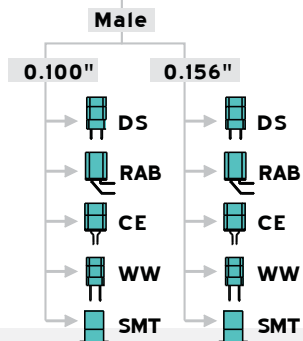
Product Configuration Chart



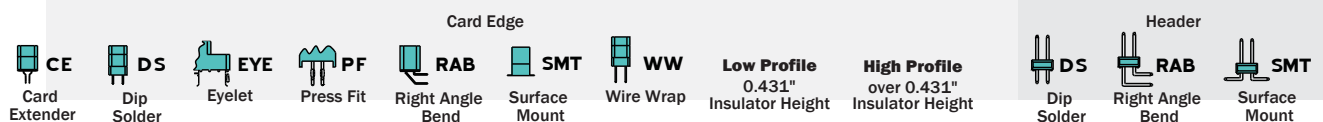
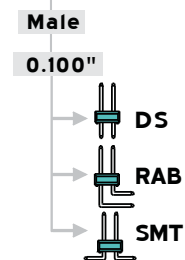
Hi-Temp Connectors



High Temperature Card Edge Connectors



High Temperature Headers



Applications for Sullins Connectors:

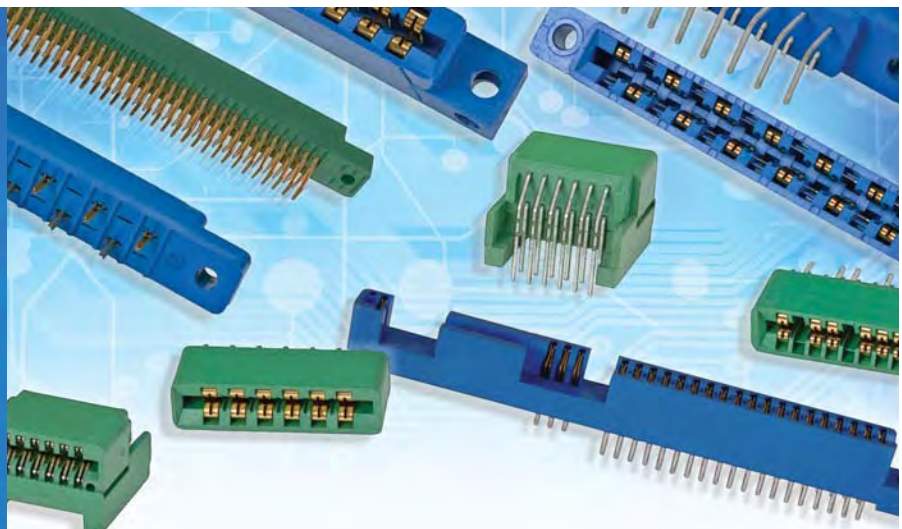
- Aircraft Electronic Controls and Radio Communications
- Computing Equipment and Peripherals
- Consumer Electronics and Household Appliances
- Office Equipment
- Automotive Electronics and Accessories
- Casino Gaming Devices
- Medical Devices
- Industry Machinery and Process Control Equipment
- Telecommunication
- Vending Machines
- Burn-in Ovens and Test Equipment
- And more...

The Sullins Advantage

- Five-day Lead Time*
- Free Samples – Fast!
- High Quality and Reliable Connectors
- Engineering Design and Technical Support
- Connector Experts at Your Service Assist with Specific Project Requirements
- Design and Build Custom Parts to Suit Your Needs
- RoHS Compliance



Order Samples and Products.

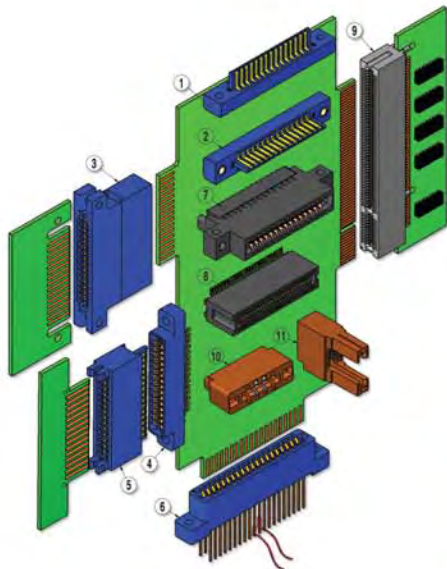


Custom Connector Solutions

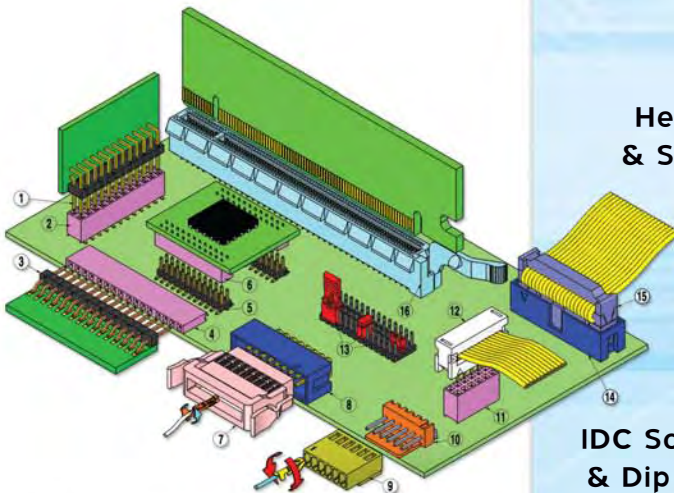
Features and Benefits:

- Expert engineering team
- In-house design and custom molding capabilities
- Fastest lead time in the industry for custom parts
- Quick change tools allow for small runs within production runs
- Modular tooling allows for quick switch from prototype to production
- Common customization include: molded-in keys, selective loading, special plating, special row spacing
- Modular tooling allows for minimal tooling cost on simple solutions, while competitive for complex solutions
- 3D CAD utilized for design
- Design analysis can lead to cost savings
- Assist with the design up front to save time and money later
- Customer logos or appearance options available

*More customized specifications may require additional time to complete.



- 1, 2, 3, 4, 5, 6 **CARD EDGE CONNECTOR**
7, 8, 9 **HIGH DENSITY CARD EDGE CONNECTOR**
10, 11 **CUSTOM CONNECTOR**



- 1, 3, 5 **MALE HEADER**
2, 4, 6, 11 **FEMALE HEADER**
7 **CUSTOM WIRE HOUSING & TERMINAL**
8, 14 **BOX HEADER**
9 **WIRE-TO-BOARD HOUSING & TERMINAL**
10 **WAFER HEADER**
12 **IDC DIP PLUG**
13 **SHUNT**
15 **IDC SOCKET**
16 **PCI EXPRESS CONNECTOR**

Product Overview

Board-to-board

Card Edge Connectors



High Density Card Edge Connectors



Hi-Temp Connectors



Headers & Shunts



Board-to-cable

IDC Sockets & Dip Plugs



Board-to-wire

Wire-to-board Connectors



Sullins' Capabilities

Sullins Connector Solutions is a leader in developing and delivering reliable, cutting-edge connectors for diverse applications and industries worldwide. Headquartered in San Diego, California, Sullins provides a broad selection of 100% RoHS, UL/CUL approved board-level interconnects, including card edge connectors, headers and wire-to-board connectors. Our extensive connector design experience and modular tooling practices allow us to help leading companies and engineers all over the world by providing customized connectors that are tailored to their specific applications.



Quality

- We want to exceed customer expectations at every level of service provided
- Continuous improvement on all aspects of manufacturing operations
- Soon to be AS9100 certified!
- RoHS compliance on all parts
- Quality control on all raw materials and finished parts based on Statistical Process Control (SPC) methods



Product Development

- We offer the largest variety of card edge connectors
- Continuous research & development of new connectors to meet new and unique demands
- Dedicated to expand product offering to provide a one-stop shopping experience for customers looking for board level interconnect products



Speed & Flexibility

- Most orders shipped within 5 business days
- Small orders never a problem
- Same-day response to customer inquiries and Request-for-Quote (RFQ)



Manufacturing

- In-house molding of various plastic materials, including thermoplastic, high temperature Polyamide and Polyphenylene Sulfide, etc.
- Full range of precision machining tools to support quick tooling and automated production
- Quick change tools allow for small runs within production runs
- Automated systems to allow efficient product assembly



Custom Connector Solutions

- In-house design and custom molding capabilities to support quick turn-around time
- Extensive connector design expertise to assist with design analysis and prototype development
- Advanced connector design tools and quick prototyping for design simulation
- Modular tooling allows for quick switch from prototype to production



Global Sales & Services

- Partnerships with a network of strategically located distributors for more efficient global sales and services
- Asia Pacific Operations established to provide close-range sales support as well as engineering and connector design consultation in the region
- Asia Pacific operations promote logistical convenience by supporting flexible drop-ship options, thus reducing overall lead time.



Sullins Card Edge

GENERAL SPECIFICATIONS	6
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1.00 mm [.039"] Contact Centers	
15.49 mm [.610"] Profile, Dip Solder/Card Extender/SMT	8
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11.25 mm [.442"] PCI Express Dip Solder	12
10.25 mm [.404"] PCI Express Card Extender for Straddle Mount	14
19.60 mm [.772"] PCI Express Right Angle	16
11.10 mm [.437"] PCI Express SMT with Post	18
11.10 mm [.437"] PCI Express Dip Solder with Locking Mechanism	20
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Sullins Headers

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.050" [1.27 mm] Contact Centers

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Micro Plastics Card Edge

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.150" [3.81 mm] Contact Centers

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.156" [3.96 mm] Contact Centers

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Polarizing Keys

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FREE SAMPLES — FAST!

We'll be happy to provide you with free samples for your next project. Our samples usually ship the same day so you can evaluate our products for your next design. It's as simple as calling your sales rep today or using our convenient web sample request.

QUICK QUOTES

Our customer-driven sales team will provide quotes quickly, usually within hours of being contacted. Our aim is to provide you with pricing information fast, so you can place your order and receive it on time.

CUSTOM CONNECTORS

Whether your next design requires a unique connector or just something simple like a molded-in key, Sullins is ready to provide you with a solution to your particular design challenge. We can design a custom connector for your project with little or no additional cost. Call our sales team today and experience the Sullins Advantage. And, since we manufacture most of our connectors in California, we can usually have a custom product ready in just days.

FREE CONSULTATION

Our engineering and technical teams are experts in Card Edge connector and header design. We can help with engineering consultation for a variety of connector applications and a broad range of products. Call us and utilize our technical resources on your next design.

QUICK TURNAROUND

Your project is important to us, so fast delivery is our primary goal. Our average lead times are less than five days, and many orders ship the same day. We strive to provide you with the best quality products in record time. Great products, delivered fast! Our goal is to keep your project on track.

EASY PRODUCT SEARCH

Quickly find a product by part number by using our index on pages 171-176.



GENERAL SPECIFICATIONS

RoHS COMPLIANT



All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 7 of this catalog.

MATERIALS

Insulator

- PBT, Valox*, Thermoplastic Polyester
- PPS, Ryton*, Polyphenylene Sulfide
- PEEK, Polyetheretherketone
- PA9T, High Temperature Polyamide
- Other materials available. Consult Factory

Contacts

Phosphor Bronze (Standard), Beryllium Copper, Beryllium Nickel, Spinodal**, Brass

Plating

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

UL/CUL File Number: E64287

Cage Code: 54453

MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

Special Insertion/Withdrawal forces available upon request

ELECTRICAL

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

Contact Centers:	.039"[1mm]	.050"[1.27mm]	.100"[2.54mm]	.125"[3.18mm]	.150"[3.81mm]	.156"[3.96mm]
Voltage:	225 VAC	300 VAC	750 VAC	750 VAC	900 VAC	950 VAC

Current Rating: 1 to 5 amp per contact

Contact Resistance: 30 milli ohm maximum at rated current

ENVIRONMENTAL

Solvent resistance: Perchloroethylene, Freon 113, Freon 11, Trichloroethylene

Operating Temperature:	PBT	-65° to +130°C	Phosphor Bronze	-65° to +125°C
	PPS	-65° to +200/220°C***	Beryllium Copper	-65° to +150°C
	PEEK	-65° to +250°C***	Spinodal**	-65° to +200°C
	PA9T	-65° to +150°C	Beryllium Nickel***	-65° to +300°C
(Continuous temperatures, higher for short duration. Contact Factory for details.)				

* Or equivalent.

** Consult factory for special soldering guidelines.

*** Consult factory.



PART NUMBER OPTIONS

E B M 43 D RT H - Sxxx		MODIFICATION CODE (Consult Factory)	
MATERIALS (Insulator/Contact)		OMIT FOR STANDARD	
E = PBT & Phosphor Bronze OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMP: 260°C FOR 10 sec. MAX. (230°C, 30 sec.)		MOUNTING STYLE	
R = PPS & Phosphor Bronze OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.		H = Clearance Holes, .125" [3.18mm] Dia	
G = PA9T & PHOSPHOR BRONZE OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMPERATURE: 260° FOR 120 sec. MAX.		N = No Mounting	
H = PBT & Beryllium Copper OPERATING TEMPERATURE: -65°C to +125°C PROCESSING TEMP: 260°C FOR 10 sec. MAX. (230°C, 30 sec.)		S = Side Mounting, .125" [3.18mm] Dia	
A = PPS & Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.		I = #4-40 Threaded Insert	
J = PA9T & Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.		F = Floating Bobbin	
M = White PA9T/Beryllium Copper OPERATING TEMPERATURE: -65°C to +150°C		W = .430" Ears, Flush Mounting, .125" [3.18mm] Dia	
F = PPS & Spinodal (Consult Factory) OPERATING TEMPERATURE: -65°C to +200°C		D = .250" Ears, Flush Mounting, .125" [3.18mm] Dia	
C = PPS & Beryllium Nickel (Consult Factory) OPERATING TEMPERATURE: -65°C to +200°C PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.		P = Clearance Holes, .142" [3.61mm] Dia.	
W = PEEK & Beryllium Nickel (Consult Factory) OPERATING TEMPERATURE: -65°C to +250°C		B = Open Card Slot	
N = Nylon 6T & Phosphor Bronze OPERATING TEMPERATURE: -10°C to +85°C PROCESSING TEMPERATURE: 260°C for 10 sec. MAX.		X = .430" Ears, Flush Mounting, #4-40 Threaded Insert	
		T = .250" Ears, Flush Mounting, #4-40 Threaded Insert	
		Q = Straddle Mount	
		Z = .250" Ears, Flush, Side Mounting	
		TERMINATION TYPE	
		Card Extender	
		HR = .050" & 1mm Contact Centers	
		KR, KN, PN, PR = .025" [.64mm] Square Post	
		Dip Solder - High Profile	
		RS = .025 [.64mm] Square Tail, Loop Bellows	
		CS, PD, PF, PS, SC = .025" [.64mm] Square Tail, Hairpin Bellows	
		TK = .026" [.66mm] Round Tail, Loop Bellows	
		CT, CW = .015" x .025" Tail, Hairpin Bellows	
		CK = .026" [.66mm] Round Tail, Loop Bellows	
		HH = 1mm [.039"] Contact Centers	
		HH, HL, HN = .050" Contact Centers	
		KS, KD = .025" [.64mm] Square Post, Cantilever	
		Dip Solder - Low Profile	
		SX, SU = Crimp to Center for Single Readout	
		RT, RK, RY = .140" [3.56mm] Row Spacing	
		RX, RF, RU, RP = .200" [5.08mm] Row Spacing	
		RJ = .250" [6.35mm] Row Spacing	
		Eyelet	
		RE, TE, SE = Eyelet Tail	
		Press Fit	
		.200" [5.08mm] Row Spacing .100" [2.54mm] Row Spacing	
		JB = .025" [.64mm] Sq. Post JF = .025" [.64mm] Sq. Post	
		JC = .025" [.64mm] Sq. Post JG = .025" [.64mm] Sq. Post	
		JW = .025" [.64mm] Sq. Post JY = .025" [.64mm] Sq. Post	
		JX = .025" [.64mm] Sq. Post JZ = .025" [.64mm] Sq. Post	
		Right Angle	
		TA, TB, TM = Loop Bellows	
		CA, CB, CC, PU = Hairpin Bellows	
		PB, PG, PE, PJ, PP = Hairpin Bellows	
		KA, KE, KU, KJ = Cantilever	
		HA = .050" & 1mm Contact Centers	
		HB = .050" & 1mm Contact Centers	
		RA, SA = Full Bellows	
		Surface Mount	
		HF = Surface Mount, .050" & 1mm Contact Centers	
		Wire Wrap	
		RM = .025" [.64mm] Square Post, Loop Bellows	
		CM, MC, PM = .025" [.64mm] Square Post, Hairpin Bellows	
		KK = .031" [.79mm] x .062" [1.58mm] Post	
		KL = .031" [.79mm] x .062" [1.58mm] Post Twisted 90°	
		KM = .025" [.64mm] Square Post, Cantilever	
		WW = .045" [1.14mm] Square Post	
		Bi-Level Terminations	
		LR = Card Extender	
		LT = Dip Solder	
		KB = Right Angle	
		Male Card Edges	
		MW, MS = Dip Solder MA, MV, MB = Right Angle	
		MR, MN = Card Extender MD, MJ, MK = Right Angle	
		MM = Wire Wrap	
CONTACT FINISH - RoHS Compliant			
All platings are Lead Free and have .000050" Nickel underplate			
Contact Surface		Termination	
B = .000010" Gold	.000100" Pure Tin, Matte		
C = .000030" Gold	.000100" Pure Tin, Matte		
G = .000010" Gold	.000005" Gold		
Y = .000030" Gold	.000005" Gold		
Contact Surface		Overall Plating	
S = .000010" Gold	.000010" Gold		
M = .000030" Gold	.000010" Gold		
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte		
CONTACT CENTERS			
E = 1.00mm [.039"]			
B = .050" [1.27 mm]			
K = .078" [1.98 mm]			
C = .100" [2.54 mm]			
A = .125" [3.18 mm]			
J = .150" [3.84 mm]			
M = .156" [3.96 mm]			
NUMBER OF CONTACT POSITIONS			
See applicable specification page			
READOUT			
D = Dual			
D = Dual Row/ Crimp to Center for Single Readout			
H = Half Loaded			
M = Male Card Edge			
Registered Trademarks			
Sabic Innovative Plastics: Valox		Sullins Electronics: Zero Lead Time	
Phillips 66: Ryton		Sullins Electronics: Sullins	
Gardner-Denver Co.: Wire Wrap		Underwriters Labs: UL	
RTP Compounder: PEEK		Ametek: Spinodal	
Specifications are subject to change without notice.			



Sullins Card Edge

MICROPLASTICS
SULLINS

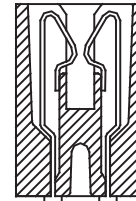
1.00 mm [.039"] Contact Centers, 15.49 mm [.610"] Insulator Height
Dip Solder/Card Extender/SMT

Sullins Card Edge

SPECIFICATIONS

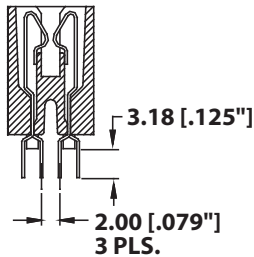
- Accommodates 1.57 mm \pm .20 [.062" \pm .008"] PC board
- PPS or PA9T insulator
- Molded-in key available
- 1 amp current rating per contact
- Highly reliable high cycle hairpin bellow contacts
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

READOUT

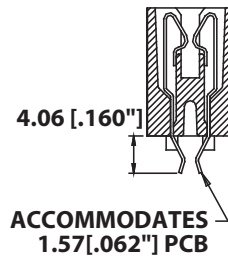


DUAL (D)

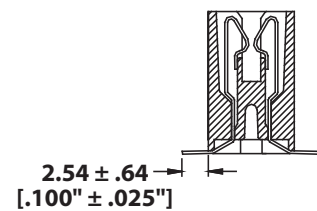
TERMINATION TYPE



STAGGERED DIP SOLDER
(HH)

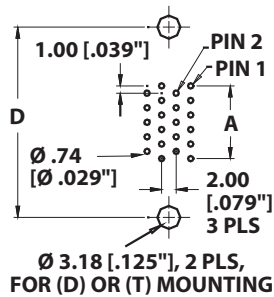


CARD EXTENDER
(HR)

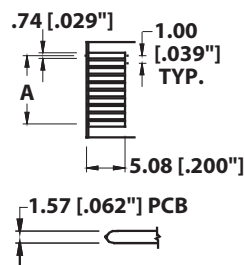


SURFACE MOUNT
(HF)

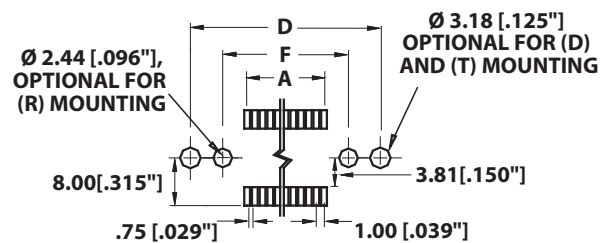
PCB LAYOUT



CONNECTOR SIDE (HH)

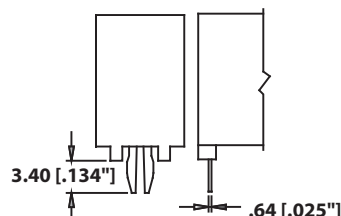


SOLDER END (HR)



CONNECTOR SIDE (HF)

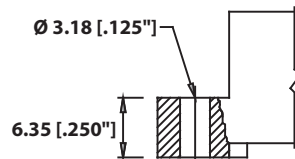
MOUNTING STYLE



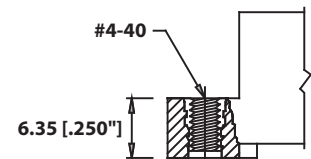
BOARD LOCK (R)
(with no mounting ears)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D)



THREADED INSERT (T)

1.00 mm [.039"] Contact Centers, 15.49 mm [.610"] Insulator Height Dip Solder/Card Extender/SMT

PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
- R = PPS/Phosphor Bronze
- J = PA9T/Beryllium Copper
- A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

- B = .000010" Gold .000100" Pure Tin, Matte
- C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

- E = 1.00mm [.039"]

G B E 50 D HH D - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

- D = Flush Mounting
- N = No Mounting
- R = Metal Board Lock
- T = Flush Mounting, #4-40 Threaded Insert

TERMINATION TYPE (Opposite Page)

- HH = Staggered Dip Solder
- HR = Card Extender
- HF = Surface Mount

READOUT (Opposite Page)

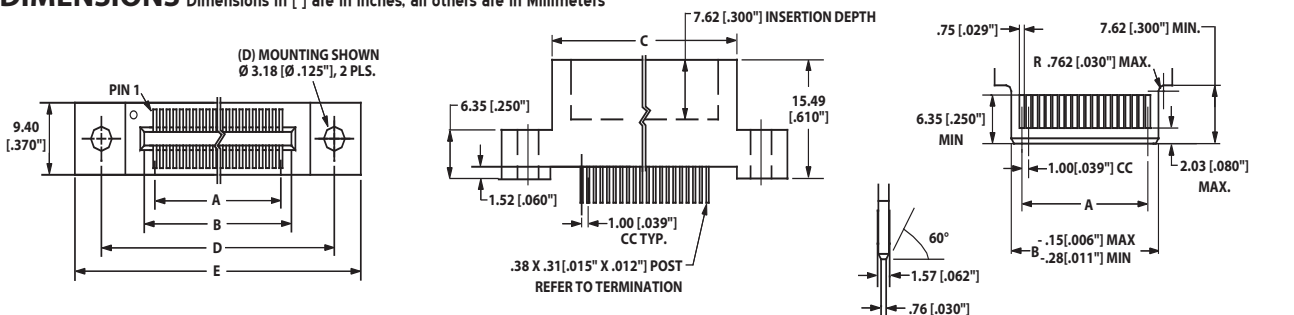
- D = Dual

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in Inches, all others are in Millimeters



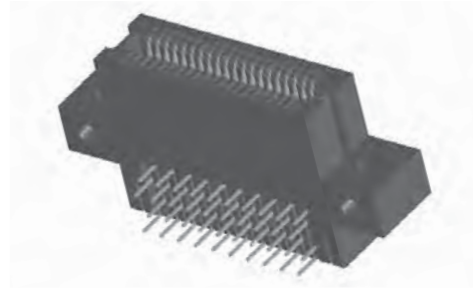
POSITIONS/ CONTACTS	MILLIMETERS						[INCHES]					
	A ±.13	B ±.13	C ±.38	D ±.25	E ±.51	F ±.25	A ±.005	B ±.005	C ±.015	D ±.010	E ±.020	F ±.010
02/04*	1.00	4.32	9.89	17.15	25.13	4.66	0.039	0.170	0.389	0.675	0.989	0.183
03/06*	2.00	5.32	10.89	18.15	26.13	5.66	0.079	0.210	0.429	0.715	1.029	0.223
04/08*	3.00	6.32	11.89	19.15	27.13	6.66	0.118	0.249	0.468	0.754	1.068	0.262
05/10	4.00	7.32	12.89	20.15	28.13	7.66	0.157	0.288	0.507	0.793	1.107	0.301
06/12*	5.00	8.32	13.89	21.15	29.13	8.66	0.197	0.328	0.547	0.833	1.147	0.341
07/14*	6.00	9.32	14.89	22.15	30.13	9.66	0.236	0.367	0.586	0.872	1.186	0.380
08/16*	7.00	10.32	15.89	23.15	31.13	10.66	0.276	0.407	0.626	0.912	1.226	0.420
09/18*	8.00	11.32	16.89	24.15	32.13	11.66	0.315	0.446	0.665	0.951	1.265	0.459
10/20	9.00	12.32	17.89	25.15	33.13	12.66	0.354	0.485	0.704	0.990	1.304	0.498
11/22*	10.00	13.32	18.89	26.15	34.13	13.66	0.394	0.525	0.744	1.030	1.344	0.538
12/24*	11.00	14.32	19.89	27.15	35.13	14.66	0.433	0.564	0.783	1.069	1.383	0.577
13/26*	12.00	15.32	20.89	28.15	36.13	15.66	0.472	0.603	0.822	1.108	1.422	0.616
14/28*	13.00	16.32	21.89	29.15	37.13	16.66	0.512	0.643	0.862	1.148	1.462	0.656
15/30	14.00	17.32	22.89	30.15	38.13	17.66	0.551	0.682	0.901	1.187	1.501	0.695
16/32*	15.00	18.32	23.89	31.15	39.13	18.66	0.591	0.722	0.941	1.227	1.541	0.735
17/34*	16.00	19.32	24.89	32.15	40.13	19.66	0.630	0.761	0.980	1.266	1.580	0.774
18/36*	17.00	20.32	25.89	33.15	41.13	20.66	0.669	0.800	1.019	1.305	1.619	0.813
19/38*	18.00	21.32	26.89	34.15	42.13	21.66	0.709	0.840	1.059	1.345	1.659	0.853
20/40	19.00	22.32	27.89	35.15	43.13	22.66	0.748	0.879	1.098	1.384	1.698	0.892
21/42*	20.00	23.32	28.89	36.15	44.13	23.66	0.787	0.918	1.137	1.423	1.737	0.931
22/44*	21.00	24.32	29.89	37.15	45.13	24.66	0.827	0.958	1.177	1.463	1.777	0.971
23/46*	22.00	25.32	30.89	38.15	46.13	25.66	0.866	0.997	1.216	1.502	1.816	1.010
24/48*	23.00	26.32	31.89	39.15	47.13	26.66	0.906	1.037	1.256	1.542	1.856	1.050
25/50*	24.00	27.32	32.89	40.15	48.13	27.66	0.945	1.076	1.295	1.581	1.895	1.089
26/52*	25.00	28.32	33.89	41.15	49.13	28.66	0.984	1.115	1.334	1.620	1.934	1.128
27/54*	26.00	29.32	34.89	42.15	50.13	29.66	1.024	1.155	1.374	1.660	1.974	1.168
28/56*	27.00	30.32	35.89	43.15	51.13	30.66	1.063	1.194	1.413	1.699	2.013	1.207
29/58*	28.00	31.32	36.89	44.15	52.13	31.66	1.102	1.233	1.452	1.738	2.052	1.246
30/60*	29.00	32.32	37.89	45.15	53.13	32.66	1.142	1.273	1.492	1.778	2.092	1.286
31/62*	30.00	33.32	38.89	46.15	54.13	33.66	1.181	1.312	1.531	1.817	2.131	1.325
32/64*	31.00	34.32	39.89	47.15	55.13	34.66	1.220	1.351	1.570	1.856	2.170	1.364
33/66*	32.00	35.32	40.89	48.15	56.13	35.66	1.260	1.391	1.610	1.896	2.210	1.404
34/68*	33.00	36.32	41.89	49.15	57.13	36.66	1.299	1.430	1.649	1.935	2.249	1.443
35/70*	34.00	37.32	42.89	50.15	58.13	37.66	1.339	1.470	1.689	1.975	2.289	1.483
36/72*	35.00	38.32	43.89	51.15	59.13	38.66	1.378	1.509	1.728	2.014	2.328	1.522
37/74*	36.00	39.32	44.89	52.15	60.13	39.66	1.417	1.548	1.767	2.053	2.367	1.561
38/76*	37.00	40.32	45.89	53.15	61.13	40.66	1.457	1.588	1.807	2.093	2.407	1.601
39/78*	38.00	41.32	46.89	54.15	62.13	41.66	1.496	1.627	1.846	2.132	2.446	1.640
40/80	39.00	42.32	47.89	55.15	63.13	42.66	1.535	1.666	1.885	2.171	2.485	1.679
41/82*	40.00	43.32	48.89	56.15	64.13	43.66	1.575	1.706	1.925	2.211	2.525	1.719
42/84*	41.00	44.32	49.89	57.15	65.13	44.66	1.614	1.745	1.964	2.250	2.564	1.758
43/86*	42.00	45.32	50.89	58.15	66.13	45.66	1.654	1.785	2.004	2.290	2.604	1.798
44/88*	43.00	46.32	51.89	59.15	67.13	46.66	1.693	1.824	2.043	2.329	2.643	1.837
45/90*	44.00	47.32	52.89	60.15	68.13	47.66	1.732	1.863	2.082	2.368	2.682	1.876
46/92*	45.00	48.32	53.89	61.15	69.13	48.66	1.772	1.903	2.122	2.408	2.722	1.916
47/94*	46.00	49.32	54.89	62.15	70.13	49.66	1.811	1.942	2.161	2.447	2.761	1.955
48/96*	47.00	50.32	55.89	63.15	71.13	50.66	1.850	1.981	2.200	2.486	2.800	1.994
49/98*	48.00	51.32	56.89	64.15	72.13	51.66	1.890	2.021	2.240	2.526	2.840	2.034
50/100	49.00	52.32	57.89	65.15	73.13	52.66	1.929	2.060	2.279	2.565	2.879	2.073

* Consult Factory For Availability.

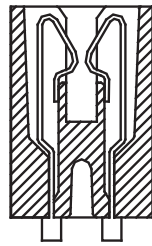


SPECIFICATIONS

- Accommodates 1.57 mm \pm .20 [.062" \pm .008"] PC board
- PA9T or PPS insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

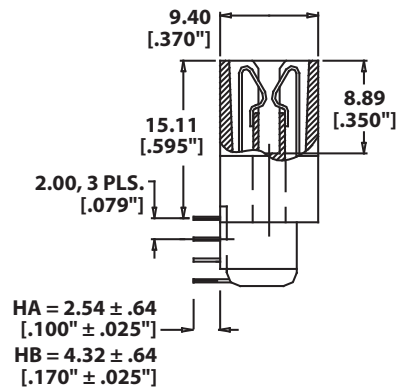


READOUT

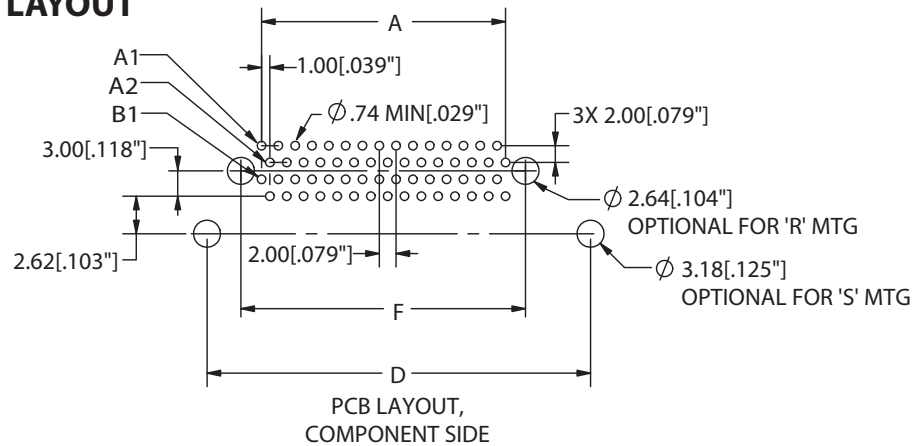


DUAL (D)

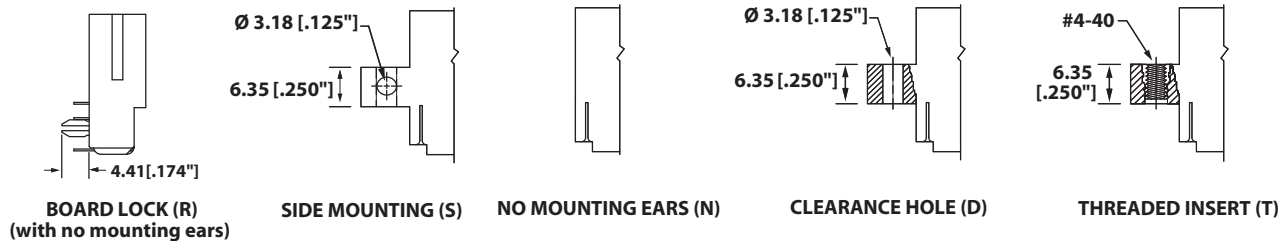
TERMINATION TYPE



PCB LAYOUT



MOUNTING STYLE



1.00 mm [.039"] Contact Centers, 21.84 mm [.860"] Insulator Height Right Angle



PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

E = 1mm [.039"]

NUMBER OF CONTACT POSITIONS

See Chart Below

G B E 50 D HA D - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

D = Flush Mounting
N = No Mounting
R = Metal Board Lock
S = Side Mounting
T = Flush Mounting with Threaded Insert

TERMINATION TYPE (Opposite Page)

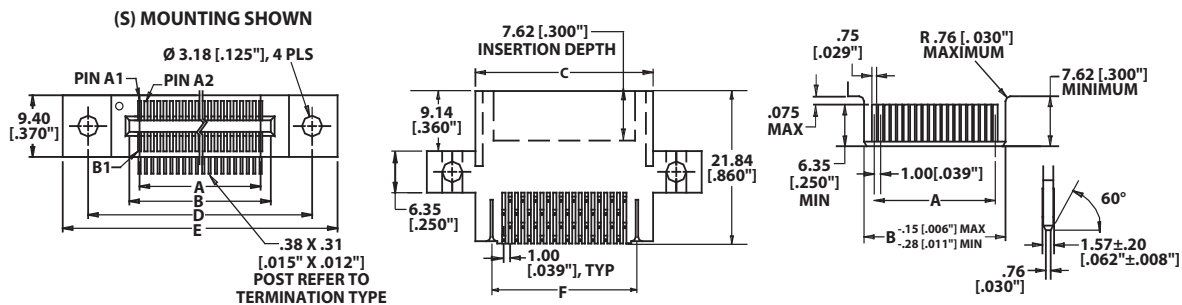
HA = .100" [2.54] Tail Length
HB = .170" [4.32] Tail Length

READOUT (Opposite Page)

D = Dual

DIMENSIONS

Dimensions in [] are in Inches, all others are in Millimeters



POSITIONS/ CONTACTS	MILLIMETERS						[INCHES]					
	A ±.13	B ±.13	C ±.38	D ±.25	E ±.51	F ±.25	A ±.005	B ±.005	C ±.015	D ±.010	E ±.020	F ±.010
02/04*	1.00	4.32	9.89	17.15	25.13	5.25	0.039	0.170	0.389	0.675	0.989	0.207
03/06*	2.00	5.32	10.89	18.15	26.13	6.25	0.079	0.210	0.429	0.715	1.029	0.246
04/08*	3.00	6.32	11.89	19.15	27.13	7.25	0.118	0.249	0.468	0.754	1.068	0.285
05/10	4.00	7.32	12.89	20.15	28.13	8.25	0.157	0.288	0.507	0.793	1.107	0.325
06/12*	5.00	8.32	13.89	21.15	29.13	9.25	0.197	0.328	0.547	0.833	1.147	0.364
07/14*	6.00	9.32	14.89	22.15	30.13	10.25	0.236	0.367	0.586	0.872	1.186	0.404
08/16*	7.00	10.32	15.89	23.15	31.13	11.25	0.276	0.407	0.626	0.912	1.226	0.443
09/18*	8.00	11.32	16.89	24.15	32.13	12.25	0.315	0.446	0.665	0.951	1.265	0.482
10/20	9.00	12.32	17.89	25.15	33.13	13.25	0.354	0.485	0.704	0.990	1.304	0.522
11/22*	10.00	13.32	18.89	26.15	34.13	14.25	0.394	0.525	0.744	1.030	1.344	0.561
12/24*	11.00	14.32	19.89	27.15	35.13	15.25	0.433	0.564	0.783	1.069	1.383	0.600
13/26*	12.00	15.32	20.89	28.15	36.13	16.25	0.472	0.603	0.822	1.108	1.422	0.640
14/28*	13.00	16.32	21.89	29.15	37.13	17.25	0.512	0.643	0.862	1.148	1.462	0.679
15/30	14.00	17.32	22.89	30.15	38.13	18.25	0.551	0.682	0.901	1.187	1.501	0.719
16/32*	15.00	18.32	23.89	31.15	39.13	19.25	0.591	0.722	0.941	1.227	1.541	0.758
17/34*	16.00	19.32	24.89	32.15	40.13	20.25	0.630	0.761	0.980	1.266	1.580	0.797
18/36*	17.00	20.32	25.89	33.15	41.13	21.25	0.669	0.800	1.019	1.305	1.619	0.837
19/38*	18.00	21.32	26.89	34.15	42.13	22.25	0.709	0.840	1.059	1.345	1.659	0.876
20/40	19.00	22.32	27.89	35.15	43.13	23.25	0.748	0.879	1.098	1.384	1.698	0.915
21/42*	20.00	23.32	28.89	36.15	44.13	24.25	0.787	0.918	1.137	1.423	1.737	0.955
22/44*	21.00	24.32	29.89	37.15	45.13	25.25	0.827	0.958	1.177	1.463	1.777	0.994
23/46*	22.00	25.32	30.89	38.15	46.13	26.25	0.866	0.997	1.216	1.502	1.816	1.033
24/48*	23.00	26.32	31.89	39.15	47.13	27.25	0.906	1.037	1.256	1.542	1.856	1.073
25/50*	24.00	27.32	32.89	40.15	48.13	28.25	0.945	1.076	1.295	1.581	1.895	1.112
26/52*	25.00	28.32	33.89	41.15	49.13	29.25	0.984	1.115	1.334	1.620	1.934	1.152
27/54*	26.00	29.32	34.89	42.15	50.13	30.25	1.024	1.155	1.374	1.660	1.974	1.191
28/56*	27.00	30.32	35.89	43.15	51.13	31.25	1.063	1.194	1.413	1.699	2.013	1.230
29/58*	28.00	31.32	36.89	44.15	52.13	32.25	1.102	1.233	1.452	1.738	2.052	1.270
30/60*	29.00	32.32	37.89	45.15	53.13	33.25	1.142	1.273	1.492	1.778	2.092	1.309
31/62*	30.00	33.32	38.89	46.15	54.13	34.25	1.181	1.312	1.531	1.817	2.131	1.348
32/64*	31.00	34.32	39.89	47.15	55.13	35.25	1.220	1.351	1.570	1.856	2.170	1.388
33/66	32.00	35.32	40.89	48.15	56.13	36.25	1.260	1.391	1.610	1.896	2.210	1.427
34/68*	33.00	36.32	41.89	49.15	57.13	37.25	1.299	1.430	1.649	1.935	2.249	1.467
35/70*	34.00	37.32	42.89	50.15	58.13	38.25	1.339	1.470	1.689	1.975	2.289	1.506
36/72*	35.00	38.32	43.89	51.15	59.13	39.25	1.378	1.509	1.728	2.014	2.328	1.545
37/74*	36.00	39.32	44.89	52.15	60.13	40.25	1.417	1.548	1.767	2.053	2.367	1.585
38/76*	37.00	40.32	45.89	53.15	61.13	41.25	1.457	1.588	1.807	2.093	2.407	1.624
39/78*	38.00	41.32	46.89	54.15	62.13	42.25	1.496	1.627	1.846	2.132	2.446	1.663
40/80	39.00	42.32	47.89	55.15	63.13	43.25	1.535	1.666	1.885	2.171	2.485	1.703
41/82*	40.00	43.32	48.89	56.15	64.13	44.25	1.575	1.706	1.925	2.211	2.525	1.742
42/84*	41.00	44.32	49.89	57.15	65.13	45.25	1.614	1.745	1.964	2.250	2.564	1.781
43/86*	42.00	45.32	50.89	58.15	66.13	46.25	1.654	1.785	2.004	2.290	2.604	1.821
44/88*	43.00	46.32	51.89	59.15	67.13	47.25	1.693	1.824	2.043	2.329	2.643	1.860
45/90*	44.00	47.32	52.89	60.15	68.13	48.25	1.732	1.863	2.082	2.368	2.682	1.900
46/92*	45.00	48.32	53.89	61.15	69.13	49.25	1.772	1.903	2.122	2.408	2.722	1.939
47/94*	46.00	49.32	54.89	62.15	70.13	50.25	1.811	1.942	2.161	2.447	2.761	1.978
48/96*	47.00	50.32	55.89	63.15	71.13	51.25	1.850	1.981	2.200	2.486	2.800	2.018
49/98*	48.00	51.32	56.89	64.15	72.13	52.25	1.890	2.021	2.240	2.526	2.840	2.057
50/100	49.00	52.32	57.89	65.15	73.13	53.25	1.929	2.060	2.279	2.565	2.879	2.096

* Consult Factory For Availability.



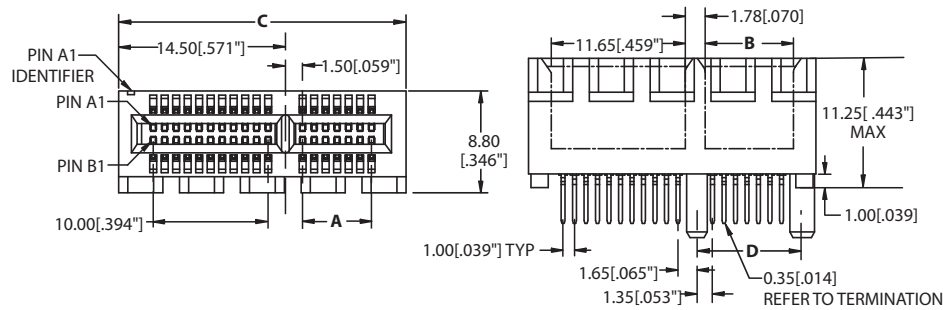
Sullins Card Edge

1.00 mm [.039"] Contact Centers, PCI Express,
Dip Solder

MICROPLASTICS
SULLINS

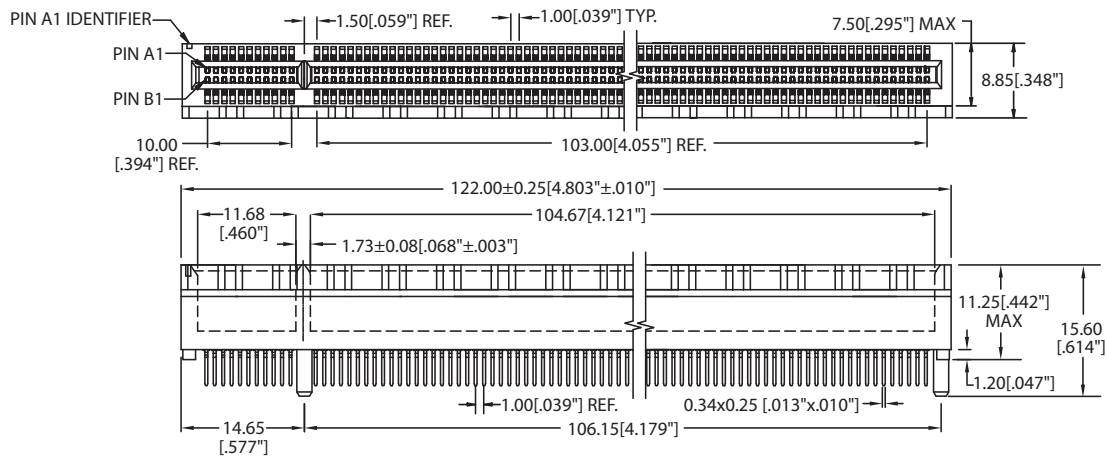
Sullins Card Edge

DIMENSIONS Dimensions in [] are in Inches, all others are in Millimeters

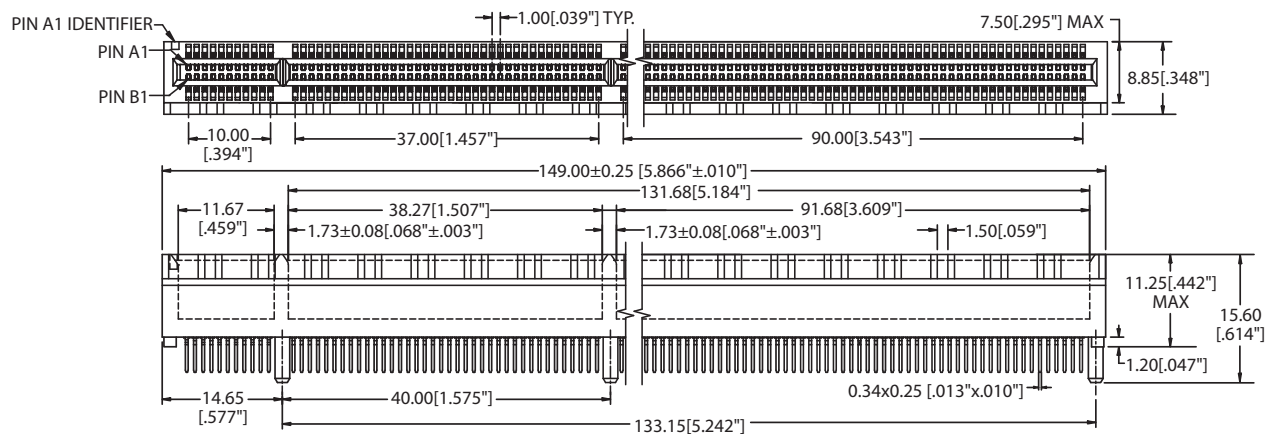


18/36, 32/64, 49/98, 82/164 POSITION, STAGGERED DIP SOLDER (HH)

POSITIONS/ CONTACTS	MILLIMETERS				[INCHES]			
	A ± 0.10	B ± 0.15	C ± 0.23	D ± 0.20	A ± 0.004"	B ± 0.006"	C ± 0.009"	D ± 0.008"
18/36	6.00	7.65	25.00	9.15	0.236	0.301	0.984	0.360
32/64	20.00	21.65	39.00	23.15	0.787	0.852	1.535	0.911
49/98	37.00	38.65	56.00	40.15	1.457	1.522	2.205	1.581
82/164	70.00	71.65	89.00	73.15	2.756	2.821	3.504	2.880



115/230 POSITION, STAGGERED DIP SOLDER (HH)



140/280 POSITION, STAGGERED DIP SOLDER (HH)



PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

N = Nylon46/Phosphor Bronze

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
W =	Gold Flash	.000100" Pure Tin, Matte

CONTACT CENTERS

E = 1mm [.039"]

NUMBER OF CONTACT POSITIONS

18, 32, 49, 82, 115, 140

N B E 18 D HH N -T9 2 1

COLOR

1 = Black

Consult factory for alternate colors

TAIL LENGTH

1 = 2.30mm [.091"] (18, 32, 49, 82, 115)
(140 Position, not available)

2 = 2.54mm [.100"] (115 & 140)

3 = 3.10mm [.122"] (18, 32, 49, 82, 115)
3.00mm [.118"] (140 Position)

MOUNTING STYLE

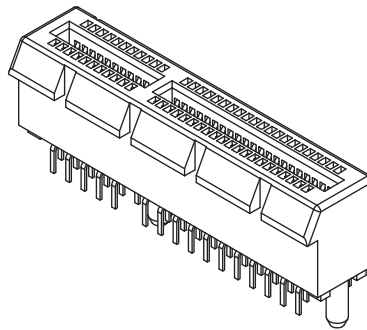
N = No Mounting

TERMINATION TYPE

HH = Staggered Dip Solder

READOUT

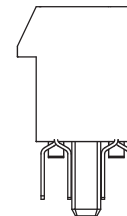
D = Dual



SPECIFICATIONS

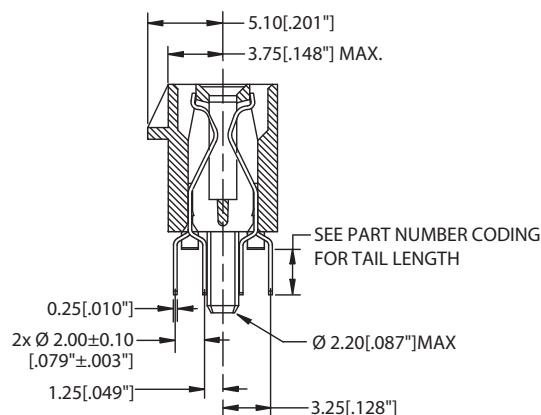
- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate (per pair data bandwidth)
- Accommodates 1.57mm \pm 0.20mm [.062" \pm .008"] PC board
- Nylon46 insulator
- 1.1 amp current rating per contact

READOUT



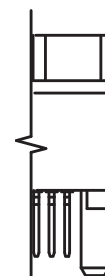
DUAL (D)

TERMINATION TYPE



Staggered Dip Solder (HH)

MOUNTING STYLE



No Mounting Ears (N)

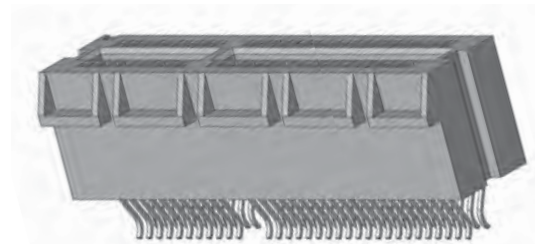


Sullins Card Edge

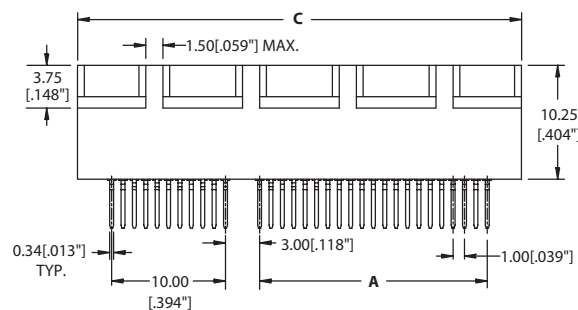
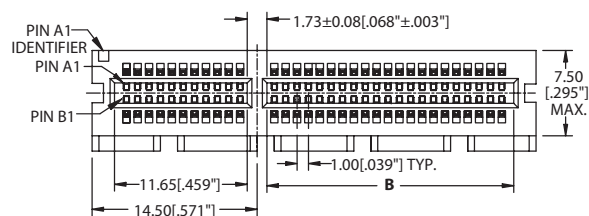
**1.00 mm [.039"] Contact Centers, PCI Express,
Card Extender for Straddle Mount**

MICROPLASTICS
SULLINS

Sullins Card Edge

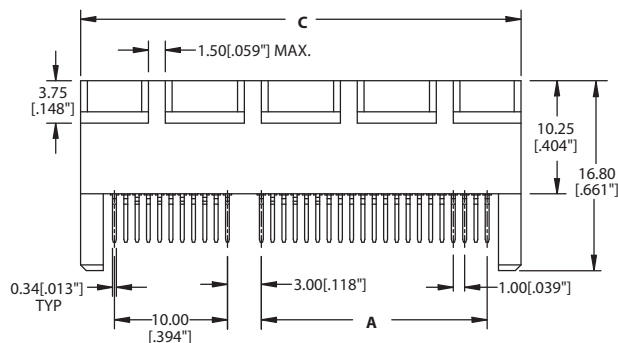
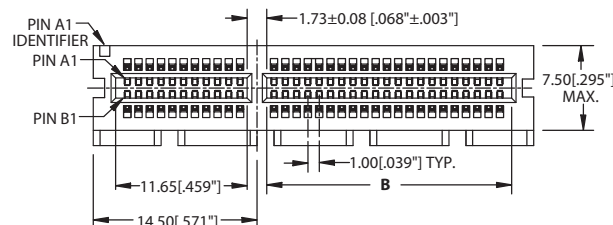


DIMENSIONS Dimensions in [] are in Inches, all others are in Millimeters



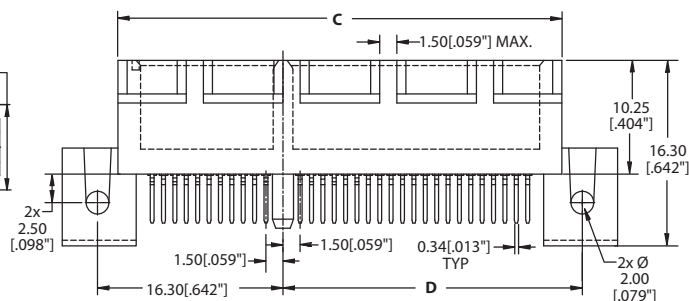
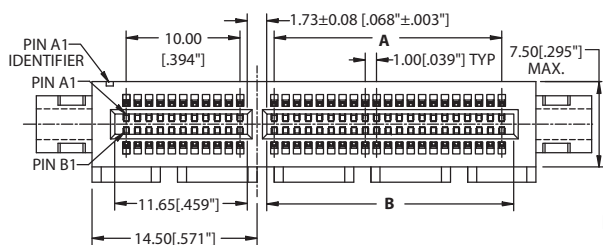
STRADDLE MOUNT

Example Part Number: NBE18DHRN-T941



STRADDLE MOUNT with PEGS

Example Part Number: NBE18DHRN-T9410



STRADDLE MOUNT with CLIPS

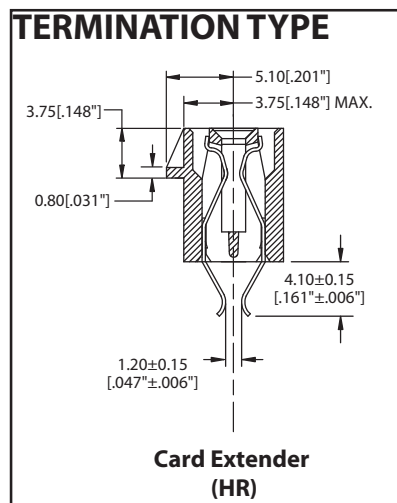
Example Part Number: NBE18DHRQ-T941

POSITIONS/ CONTACTS	MILLIMETERS				[INCHES]			
	A ± 0.15	B ± 0.15	C ± 0.15	D ± 0.15	A ± 0.006"	B ± 0.006"	C ± 0.006"	D ± 0.006"
18/36	6.00	7.65	25.00	12.30	0.236	0.301	0.984	0.484
32/64	20.00	21.65	39.00	26.30	0.787	0.852	1.535	1.035
49/98	37.00	38.65	56.00	43.30	1.457	1.522	2.205	1.705
82/164	70.00	71.65	89.00	76.30	2.756	2.821	3.504	3.004



PART NUMBER OPTIONS

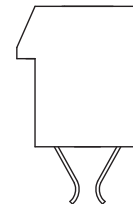
MATERIALS (INSULATOR/CONTACT)	N	B	E	18	D	HR	N	-T9	4	1	0	MODIFICATION CODE OMIT FOR STANDARD 0 = Pegs Available in 'N' Mounting Only
N = Nylon 46/Phosphor Bronze												
CONTACT FINISH - RoHS Compliant												COLOR 1 = Black Other Options Available
All platings are Lead Free and have .000050" Nickel underplate												
Contact Surface												TAIL LENGTH 4 = 4.10mm [.161"]
B = .000010" Gold												
C = .000030" Gold												
W = Gold Flash												
Termination												MOUNTING STYLE N = No Mounting Q = Straddle Mount with Clips (Q Not Available with T9410 Modification)
CONTACT CENTERS												
E = 1mm [.039"]												
NUMBER OF CONTACT POSITIONS												TERMINATION TYPE HR = Card Extender for Straddle Mount
18, 32, 49, 82												
READOUT												
D = Dual												



SPECIFICATIONS

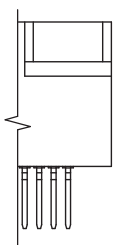
- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate (per pair data bandwidth)
- Accommodates 1.57mm ± 0.20mm [.062" ± .008"] PC board
- Nylon46 insulator
- 1.1 amp current rating per contact
- UL Flammability Rating: 94V-0

READOUT

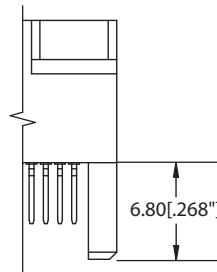


DUAL (D)

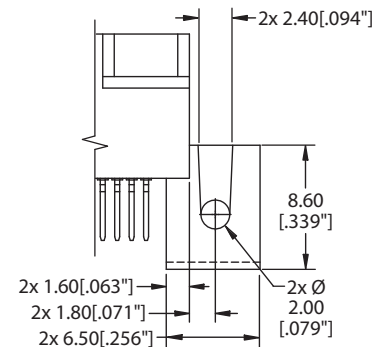
MOUNTING STYLE



NO MOUNTING (N)



WITH PEGS
('N' Mounting Style with '0' Modification Code)



WITH CLIPS (Q)



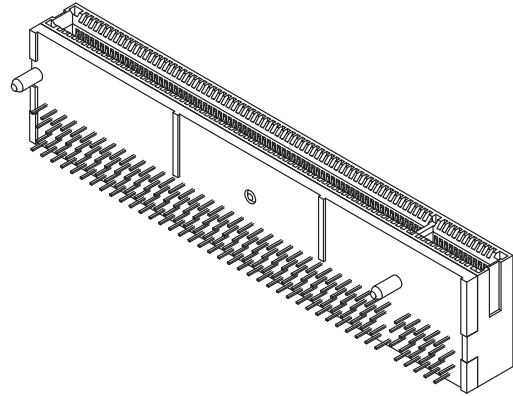
Sullins Card Edge

1.00 mm [.039"] Contact Centers, PCI Express Right Angle

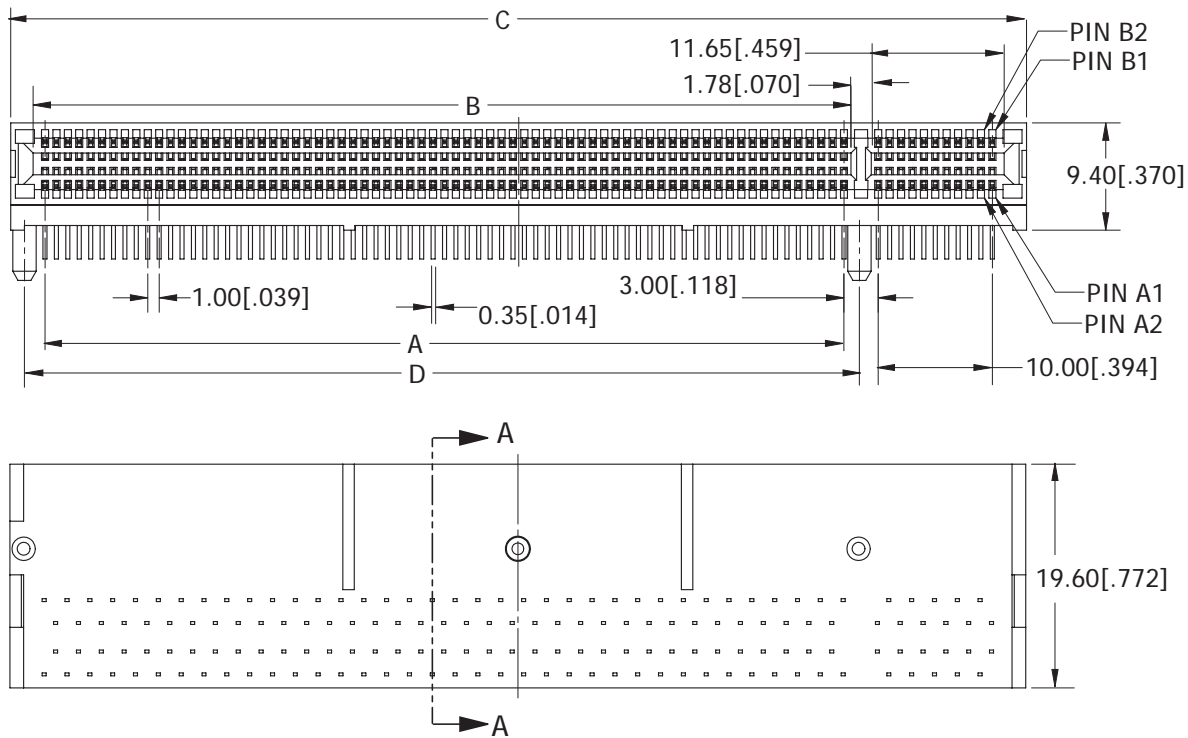
MICROPLASTICS
SULLINS

SPECIFICATIONS

- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate(per pair data bandwidth)
- Accommodates 1.57mm \pm 0.20mm [.062" \pm .008"] PC Board
- Nylon46 insulator
- 1.1 amp current rating per contact
- UL Flammability Rating: 94V-0



DIMENSIONS



POSITIONS/ CONTACTS	MILLIMETERS				[INCHES]			
	A \pm 0.25	B \pm 0.25	C \pm 0.25	D \pm 0.25	A \pm 0.010"	B \pm 0.010"	C \pm 0.010"	D \pm 0.010"
18/36	6.00	7.65	25.00	9.15	0.236	0.301	0.984	0.360
32/64	20.00	21.65	39.00	23.15	0.787	0.852	1.535	0.911
49/98	37.00	38.65	56.00	40.15	1.457	1.522	2.205	1.581
82/164	70.00	71.65	89.00	73.15	2.756	2.821	3.504	2.880



PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT) — N B E 18 D HA N -T9 2 1

N = Nylon 46/Phosphor Bronze

CONTACT FINISH - RoHS Compliant —

All platings are Lead Free and have .000050" Nickel underplate

	<i>Contact Surface</i>	<i>Termination</i>
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
W =	Gold Flash	.000100" Pure Tin, Matte

CONTACT CENTERS — E = 1mm [.039"]

NUMBER OF CONTACT POSITIONS — 18, 32, 49, 82

READOUT — D = Dual

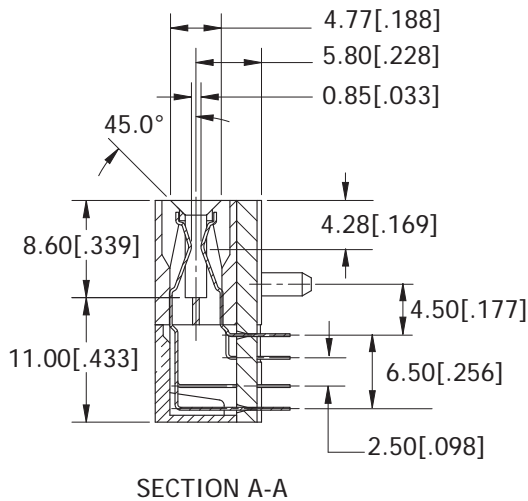
COLOR — 1 = Black
Other Options Available

TAIL LENGTH — 2 = 2.50mm [.098"]
3 = 3.10mm [.122"]
6 = 3.56mm [.140"]

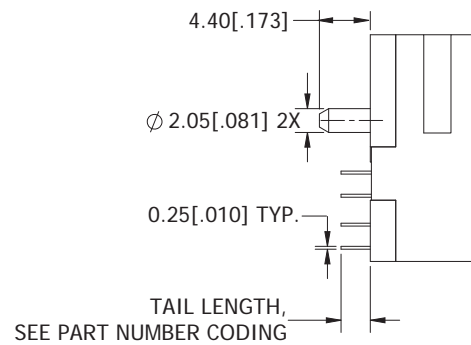
MOUNTING STYLE — N = No Mounting

TERMINATION TYPE — HA = Right Angle

Termination Type



READOUT

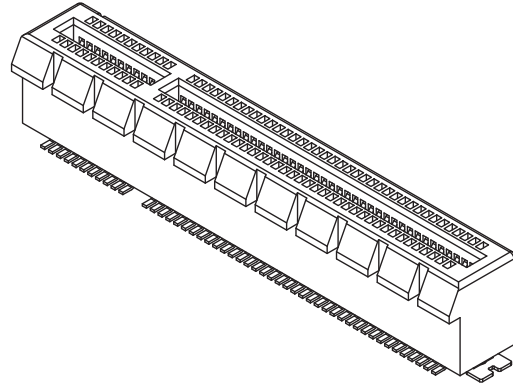




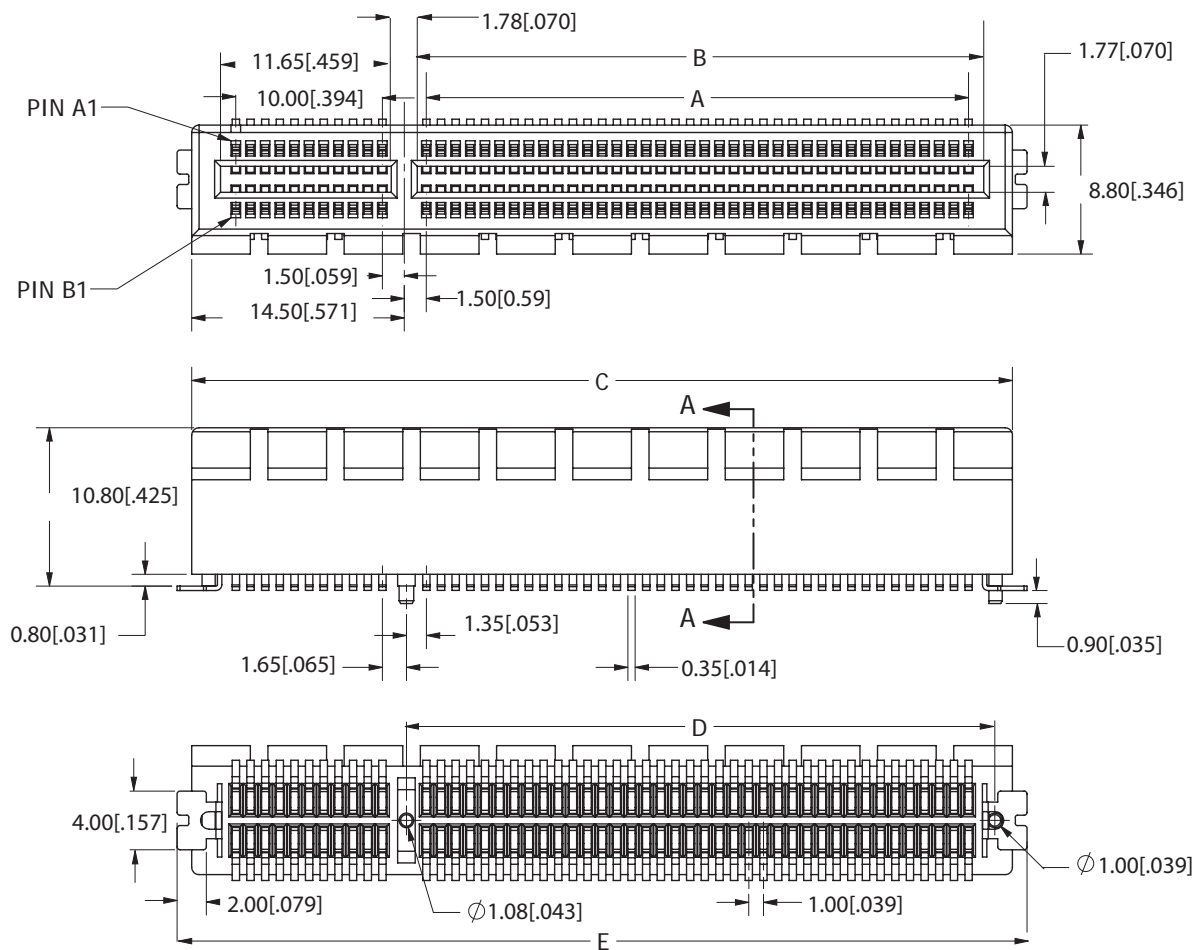
1.00 mm [.039"] Contact Centers, PCI Express SMT with Post

SPECIFICATIONS

- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate(per pair data bandwidth)
- Accommodates 1.57mm \pm 0.20mm [.062" \pm .008"] PC Board
- Nylon46 insulator
- 1.1 amp current rating per contact
- UL Flammability Rating: 94V-0



DIMENSIONS



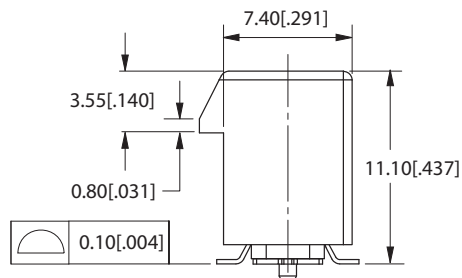
1.00 mm [.039"] Contact Centers, PCI Express SMT with Post



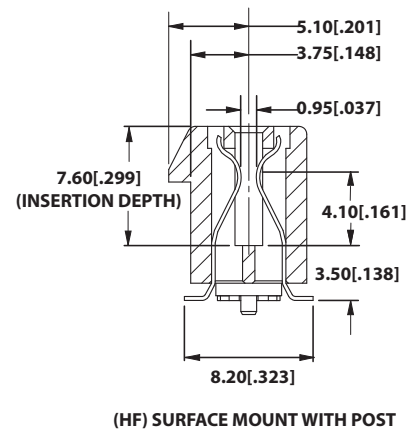
PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)		G	B	E	18	D	HF	N	-T951
G = PA9T/ Phosphor Bronze									
CONTACT FINISH - RoHS Compliant									
All platings are Lead Free and have .000050" Nickel underplate									
	Contact Surface	Termination							
B =	.000010" Gold	.000100" Pure Tin, Matte							
C =	.000030" Gold	.000100" Pure Tin, Matte							
W =	Gold Flash	.000100" Pure Tin, Matte							
CONTACT CENTERS									
E = 1mm [.039"]									
								MOUNTING STYLE	
								N = No Mounting	
								TERMINATION TYPE	
								HF = SURFACE MOUNT WITH POST	
								READOUT	
								D = Dual	
								NUMBER OF CONTACT POSITIONS	
								18, 32, 49, 82	

READOUT



Termination Type



POSITIONS/ CONTACTS	MILLIMETERS					[INCHES]				
	A ± 0.10	B +0.15 /-0.05	C ± 0.23	D ± 0.20	E ± 0.20	A ± 0.004"	B +.006 /- .002"	C ± 0.009"	D ± 0.008"	E ± 0.008"
18/36	6.00	7.65	25.00	9.15	27.00	0.236	0.301	0.984	0.360	1.063
32/64	20.00	21.65	39.00	23.15	41.00	0.787	0.852	1.535	0.911	1.614
49/98	37.00	38.65	56.00	40.15	58.00	1.457	1.522	2.205	1.581	2.283
82/164	70.00	71.65	89.00	73.15	91.00	2.756	2.821	3.504	2.880	3.583



Sullins Card Edge

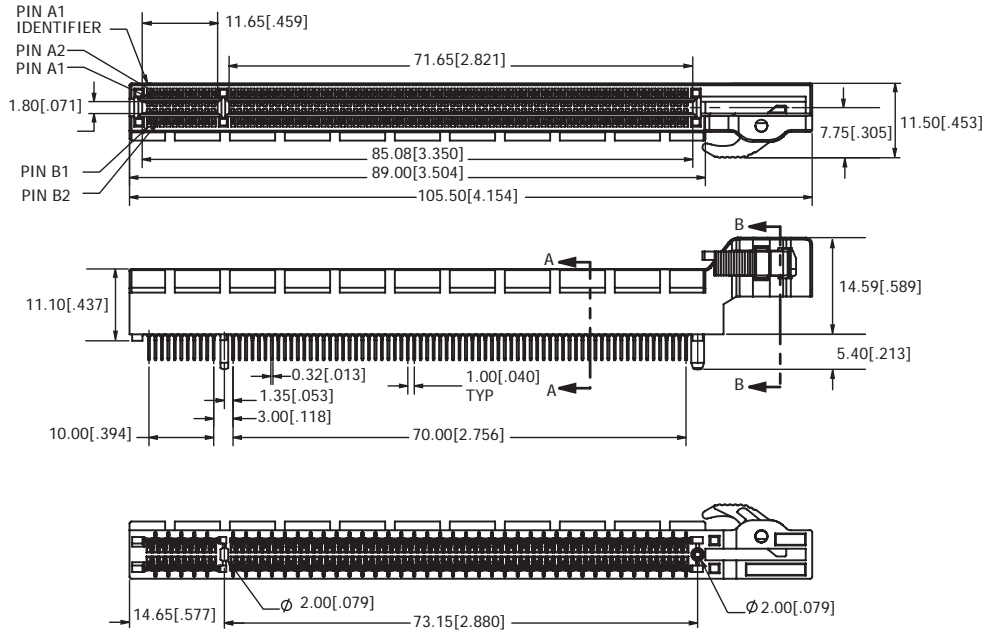
1.00 mm [.039"] Contact Centers, PCI Express Dip Solder With Locking Mechanism

MICROPLASTICS
SULLINS

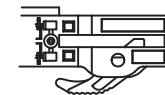
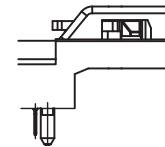
SPECIFICATIONS

- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate(per pair data bandwidth)
- Accommodates 1.57mm \pm 0.20mm [.062" \pm .008"] PC Board
- Nylon46 insulator
- 1 to 1.1 amp current rating per contact
- UL Flammability Rating: 94V-0

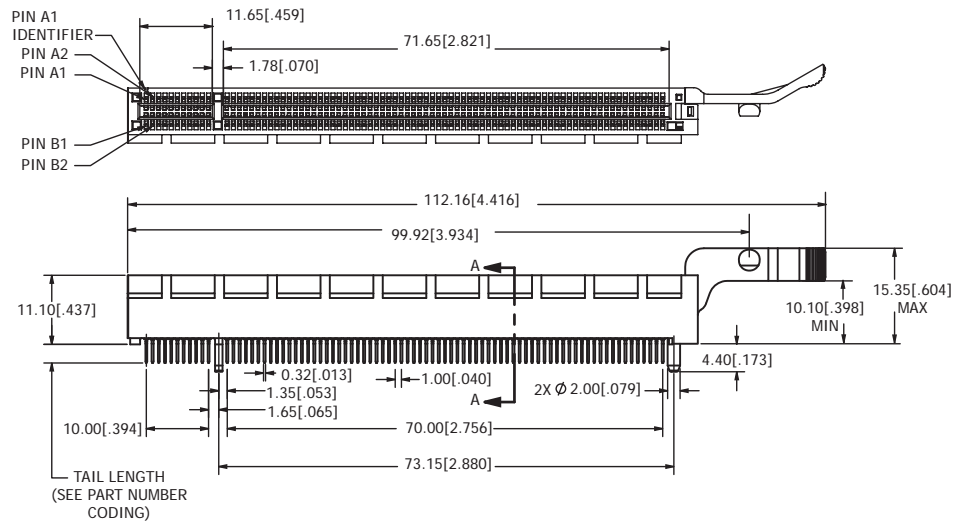
DIMENSIONS



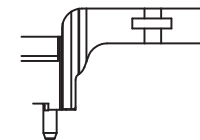
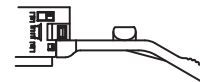
SAMPLE P/N: NBE82DHHN-T9212 CLAMP LEFT



CLAMP RIGHT



SAMPLE P/N: NBE82DHHN-T9213 HANDLE RIGHT



HANDLE LEFT

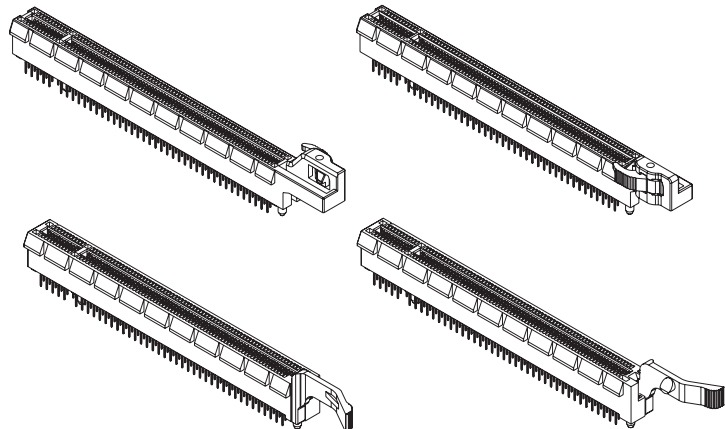
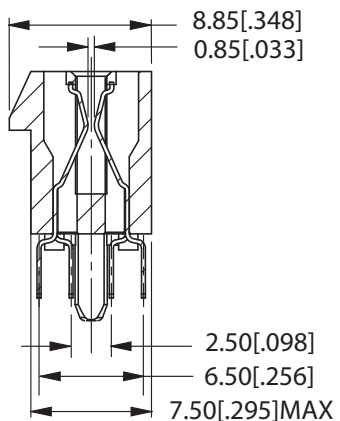
1.00 mm [.039"] Contact Centers, PCI Express Dip Solder With Locking Mechanism

PART NUMBER OPTIONS

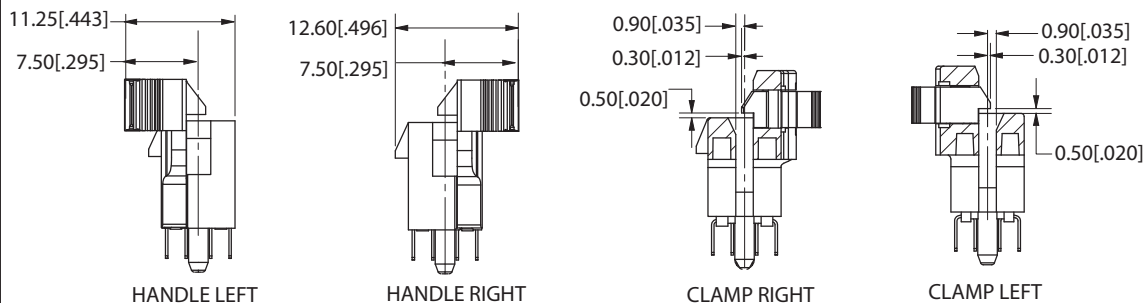
The diagram shows a 12-pin connector with callouts for various specifications. The callouts are as follows:

- MATERIALS (INSULATOR/CONTACT)**: N = Nylon 46/Phosphor Bronze
- CONTACT FINISH - RoHS Compliant**: All platings are Lead Free and have .000050" Nickel underplate
- CONTACT SURFACE**: B = .000010" Gold, C = .000030" Gold, W = Gold Flash
- TERMINATION**: B = .000100" Pure Tin, Matte; C = .000100" Pure Tin, Matte; W = .000100" Pure Tin, Matte
- CONTACT CENTERS**: E = 1mm [.039"]
- NUMBER OF CONTACT POSITIONS**: D = Dual
- READOUT**: D = Dual
- LOCKING MECHANISM**: 1 = Clamp Right, 2 = Clamp Left, 3 = Handle Right, 4 = Handle Left
- COLOR**: 1 = Black, 5 = Light Blue
- TAIL LENGTH**: 2 = 2.50mm [.098"], 3 = 3.00mm [.118"]
- MOUNTING STYLE**: N = No Mounting
- TERMINATION TYPE**: HH = Staggered Dip Solder

Termination Type

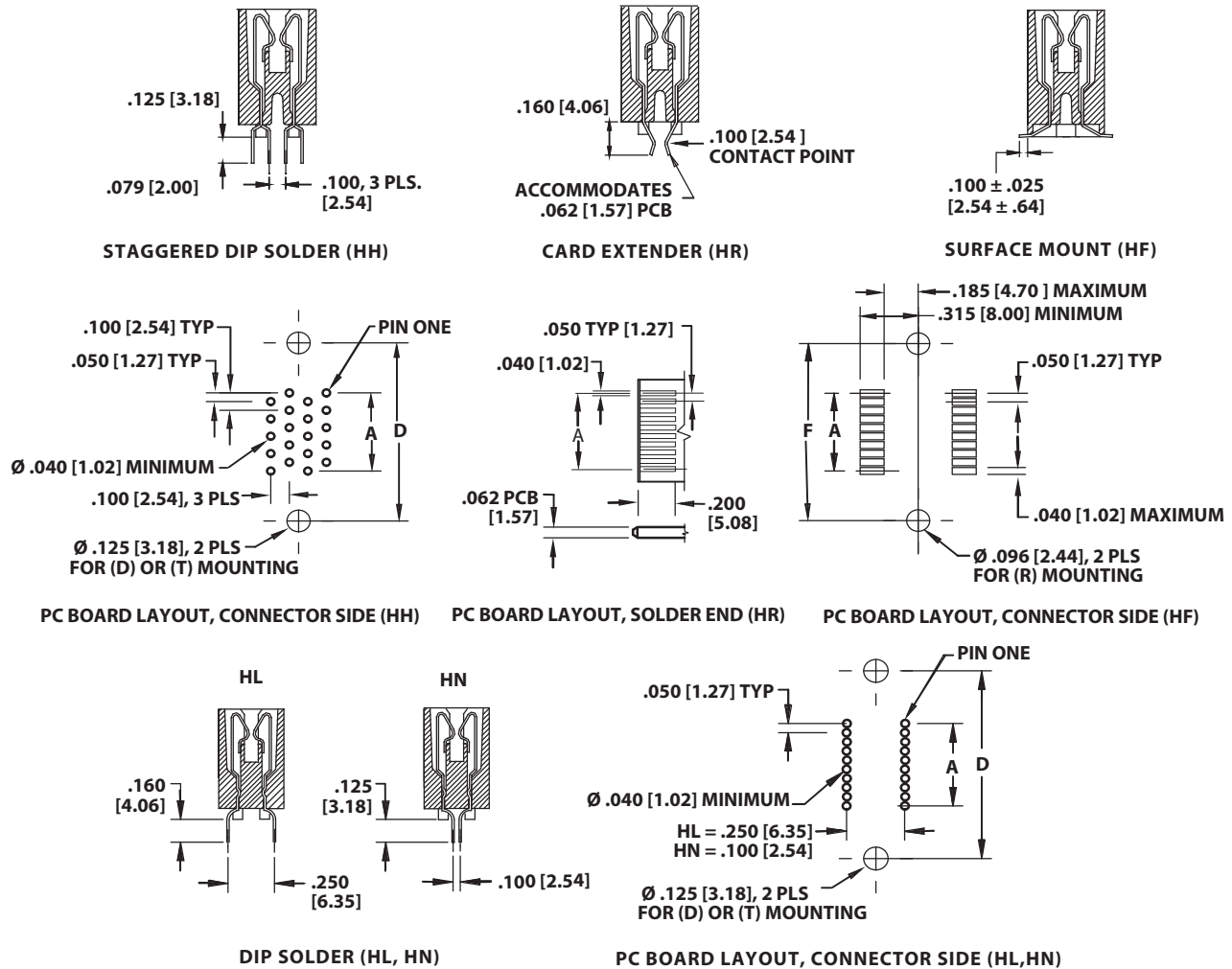
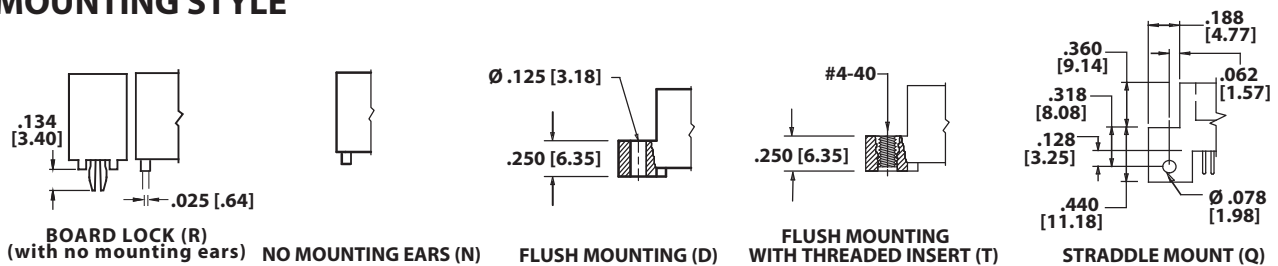


Locking Mechanism



**SPECIFICATIONS**

- Accommodates $.062" \pm .008"$ [1.57 \pm .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

**TERMINATION TYPE****MOUNTING STYLE**

.050" [1.27 mm] Contact Centers, .610" [15.49 mm] Insulator Height
Dip Solder/Card Extender/SMT

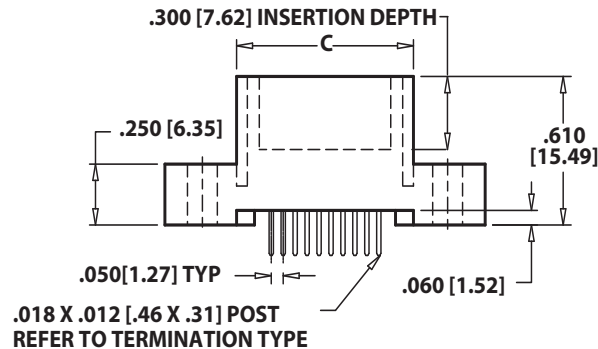
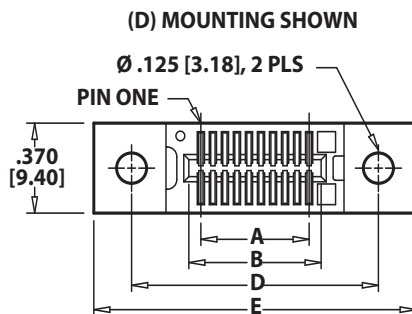


PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)	G B B 40 D HH D - Sxxx	MODIFICATION CODE (Consult Factory) OMIT FOR STANDARD
G = PA9T/Phosphor Bronze R = PPS/Phosphor Bronze J = PA9T/Beryllium Copper A = PPS/Beryllium Copper		MOUNTING STYLE (Opposite Page) D = Flush Mounting N = No Mounting T = Flush Mounting With Threaded Insert Q = Straddle Mount (Card Extender Only) R = Metal Boardlocks
CONTACT FINISH - RoHS Compliant		TERMINATION TYPE (Opposite Page) HH = Staggered Dip Solder HR = Card Extender HF = Surface Mount HL = .250 x .160 [6.35mm x 4.06] Dip Solder HN = .100 x .125 [2.54mm x 3.18] Dip Solder (Replaces Terminations CH, CR, CF, CL, CN)
All platings are Lead Free and have .000050" Nickel underplate		READOUT (Opposite Page) D = Dual
Contact Surface Termination		
B = .000010" Gold .000100" Pure Tin, Matte C = .000030" Gold .000100" Pure Tin, Matte		
CONTACT CENTERS		
B = .050 [1.27mm]		
NUMBER OF CONTACT POSITIONS		
See Chart Below		

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



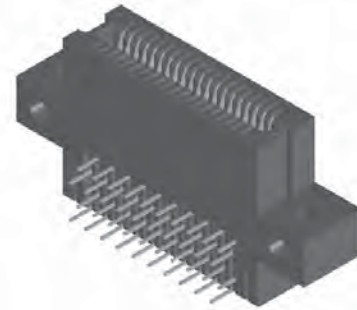
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A ±.005	B ±.005	C ±.015	D ±.010	E ±.020	F ±.010	A ±.13	B ±.13	C ±.38	D ±.25	E ±.51	F ±.25
05/10	0.200	0.300	0.490	0.776	1.090	0.350	5.08	7.62	12.45	19.71	27.69	8.89
06/12	0.250	0.350	0.540	0.826	1.140	0.400	6.35	8.89	13.72	20.98	28.96	10.16
09/18	0.400	0.500	0.690	0.976	1.290	0.550	10.16	12.70	17.53	24.79	32.77	13.97
10/20	0.450	0.550	0.740	1.026	1.340	0.600	11.43	13.97	18.80	26.06	34.04	15.24
13/26	0.600	0.700	0.890	1.176	1.490	0.750	15.24	17.78	22.61	29.87	37.85	19.05
14/28*	0.650	0.750	0.940	1.226	1.540	0.800	16.51	19.05	23.88	31.14	39.12	20.32
15/30	0.700	0.800	0.990	1.276	1.590	0.850	17.78	20.32	25.15	32.41	40.39	21.59
20/40	0.950	1.050	1.240	1.526	1.840	1.100	24.13	26.67	31.50	38.76	46.74	27.94
22/44	1.050	1.150	1.340	1.626	1.940	1.200	26.67	29.21	34.04	41.30	49.28	30.48
24/48*	1.150	1.250	1.440	1.726	2.040	1.300	29.21	31.75	36.58	43.84	51.82	33.02
25/50	1.200	1.300	1.490	1.776	2.090	1.350	30.48	33.02	37.85	45.11	53.09	34.29
30/60	1.450	1.550	1.740	2.026	2.340	1.600	36.83	39.37	44.20	51.46	59.44	40.64
34/68	1.650	1.750	1.940	2.226	2.540	1.800	41.91	44.45	49.28	56.54	64.52	45.72
35/70	1.700	1.800	1.990	2.276	2.590	1.850	43.18	45.72	50.55	57.81	65.79	46.99
40/80	1.950	2.050	2.240	2.526	2.840	2.100	49.53	52.07	56.90	64.16	72.14	53.34
45/90	2.200	2.300	2.490	2.776	3.090	2.350	55.88	58.42	63.25	70.51	78.49	59.69
50/100	2.450	2.550	2.740	3.026	3.340	2.600	62.23	64.77	69.60	76.86	84.84	66.04
55/110*	2.700	2.800	2.990	3.276	3.590	2.850	68.58	71.12	75.95	83.21	91.19	72.39
60/120	2.950	3.050	3.240	3.526	3.840	3.100	74.93	77.47	82.30	89.56	97.54	78.74
64/128	3.150	3.250	3.440	3.726	4.040	3.300	80.01	82.55	87.38	94.64	102.62	83.82
65/130*	3.200	3.300	3.490	3.776	4.090	3.350	81.28	83.82	88.65	95.91	103.89	85.09
66/132*	3.250	3.350	3.540	3.826	4.140	3.400	82.55	85.09	89.92	97.18	105.16	86.36
70/140*	3.450	3.550	3.740	4.026	4.340	3.600	87.63	90.17	95.00	102.26	110.24	91.44
75/150	3.700	3.800	3.990	4.276	4.590	3.850	93.98	96.52	101.35	108.61	116.59	97.79
80/160	3.950	4.050	4.240	4.526	4.840	4.100	100.33	102.87	107.70	114.96	122.94	104.14
85/170*	4.200	4.300	4.490	4.776	5.090	4.350	106.68	109.22	114.05	121.31	129.29	110.49
90/180	4.450	4.550	4.740	5.026	5.340	4.600	113.03	115.57	120.40	127.66	135.64	116.84
95/190*	4.700	4.800	4.990	5.276	5.590	4.850	119.38	121.92	126.75	134.01	141.99	123.19
100/200	4.950	5.050	5.240	5.526	5.840	5.100	125.73	128.27	133.10	140.36	148.34	129.54
105/210	5.200	5.300	5.490	5.776	6.090	5.350	132.08	134.62	139.45	146.71	154.69	135.89
108/216*	5.350	5.450	5.640	5.926	6.240	5.500	135.89	138.43	143.26	150.52	158.50	139.70
110/220	5.450	5.550	5.740	6.026	6.340	5.600	138.43	140.97	145.80	153.06	161.04	142.24
120/240	5.950	6.050	6.240	'N' Mounting Only		6.100	151.13	153.67	158.50	'N' Mounting Only		154.94

* Consult Factory For Availability.

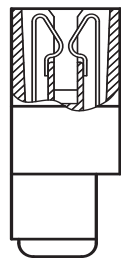


SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

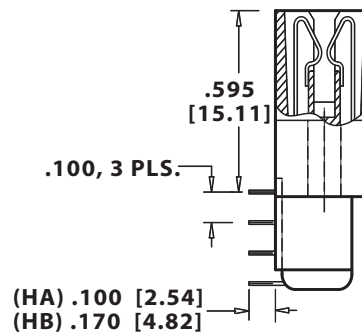


READOUT

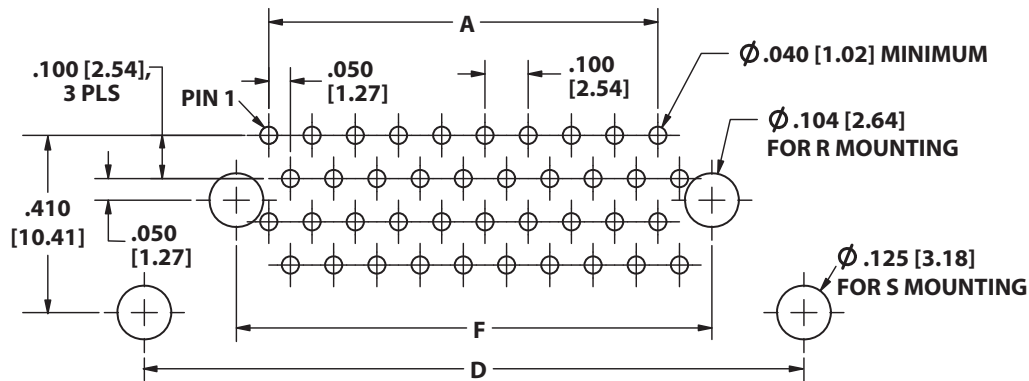


DUAL (D)

TERMINATION TYPE

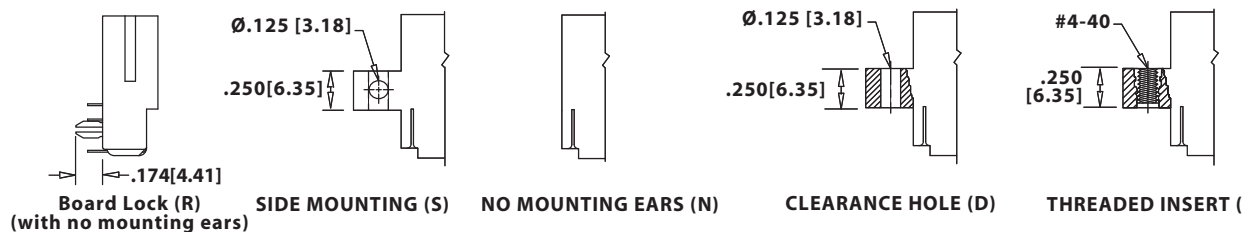


PCB LAYOUT



PCB LAYOUT, COMPONENT SIDE

MOUNTING STYLE



**.050" [1.27 mm] Contact Centers, .915" [23.23 mm] Insulator Height
Right Angle**



PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface Termination
B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

G B B 10 D HA S - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

S = Side Mounting
D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
R = Metal Board Lock

TERMINATION TYPE (Opposite Page)

HA = .100" Staggered Dip Solder, Right Angle
HB = .170" Staggered Dip Solder, Right Angle

READOUT (Opposite Page)

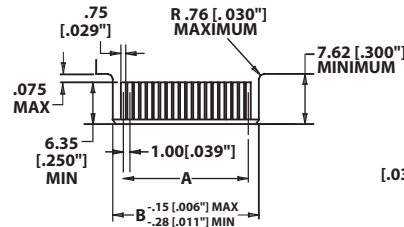
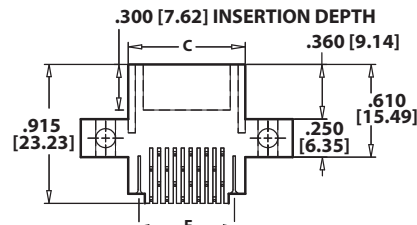
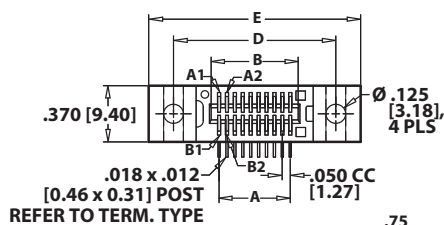
D = Dual

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



CARD LAYOUT

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A	B	C	D	E	F	A	B	C	D	E	F
	±.005	±.005	±.015	±.010	±.020	±.010	±.13	±.13	±.38	±.25	±.51	±.25
05/10	0.200	0.300	0.490	0.776	1.090	0.350	5.08	7.62	12.45	19.71	27.69	8.89
06/12	0.250	0.350	0.540	0.826	1.140	0.400	6.35	8.89	13.72	20.98	28.96	10.16
09/18	0.400	0.500	0.690	0.976	1.290	0.550	10.16	12.70	17.53	24.79	32.77	13.97
10/20	0.450	0.550	0.740	1.026	1.340	0.600	11.43	13.97	18.80	26.06	34.04	15.24
13/26	0.600	0.700	0.890	1.176	1.490	0.750	15.24	17.78	22.61	29.87	37.85	19.05
14/28	0.650	0.750	0.940	1.226	1.540	0.800	16.51	19.05	23.88	31.14	39.12	20.32
15/30	0.700	0.800	0.990	1.276	1.590	0.850	17.78	20.32	25.15	32.41	40.39	21.59
20/40	0.950	1.050	1.240	1.526	1.840	1.100	24.13	26.67	31.50	38.76	46.74	27.94
22/44	1.050	1.150	1.340	1.626	1.940	1.200	26.67	29.21	34.04	41.30	49.28	30.48
24/48	1.150	1.250	1.440	1.726	2.040	1.300	29.21	31.75	36.58	43.84	51.82	33.02
25/50	1.200	1.300	1.490	1.776	2.090	1.350	30.48	33.02	37.85	45.11	53.09	34.29
30/60	1.450	1.550	1.740	2.026	2.340	1.600	36.83	39.37	44.20	51.46	59.44	40.64
34/68	1.650	1.750	1.940	2.226	2.540	1.800	41.91	44.45	49.28	56.54	64.52	45.72
35/70	1.700	1.800	1.990	2.276	2.590	1.850	43.18	45.72	50.55	57.81	65.79	46.99
40/80	1.950	2.050	2.240	2.526	2.840	2.100	49.53	52.07	56.90	64.16	72.14	53.34
45/90	2.200	2.300	2.490	2.776	3.090	2.350	55.88	58.42	63.25	70.51	78.49	59.69
50/100	2.450	2.550	2.740	3.026	3.340	2.600	62.23	64.77	69.60	76.86	84.84	66.04
55/110	2.700	2.800	2.990	3.276	3.590	2.850	68.58	71.12	75.95	83.21	91.19	72.39
60/120	2.950	3.050	3.240	3.526	3.840	3.100	74.93	77.47	82.30	89.56	97.54	78.74
64/128	3.150	3.250	3.440	3.726	4.040	3.300	80.01	82.55	87.38	94.64	102.62	83.82
65/130	3.200	3.300	3.490	3.776	4.090	3.350	81.28	83.82	88.65	95.91	103.89	85.09
66/132	3.250	3.350	3.540	3.826	4.140	3.400	82.55	85.09	89.92	97.18	105.16	86.36
70/140	3.450	3.550	3.740	4.026	4.340	3.600	87.63	90.17	95.00	102.26	110.24	91.44
75/150	3.700	3.800	3.990	4.276	4.590	3.850	93.98	96.52	101.35	108.61	116.59	97.79
80/160	3.950	4.050	4.240	4.526	4.840	4.100	100.33	102.87	107.70	114.96	122.94	104.14
85/170	4.200	4.300	4.490	4.776	5.090	4.350	106.68	109.22	114.05	121.31	129.29	110.49
90/180	4.450	4.550	4.740	5.026	5.340	4.600	113.03	115.57	120.40	127.66	135.64	116.84
95/190	4.700	4.800	4.990	5.276	5.590	4.850	119.38	121.92	126.75	134.01	141.99	123.19
100/200	4.950	5.050	5.240	5.526	5.840	5.100	125.73	128.27	133.10	140.36	148.34	129.54
105/210	5.200	5.300	5.490	5.776	6.090	5.350	132.08	134.62	139.45	146.71	154.69	135.89
108/216	5.350	5.450	5.640	5.926	6.240	5.500	135.89	138.43	143.26	150.52	158.50	139.70
110/220	5.450	5.550	5.740	6.026	6.340	5.600	138.43	140.97	145.80	153.06	161.04	142.24
120/240	5.950	6.050	6.240	'N' Mounting Only	6.100		151.13	153.67	158.50	'N' Mounting Only		154.94

* Consult Factory For Availability.



Sullins Card Edge

MICROPLASTICS
SULLINS

.050" [1.27 mm] Contact Centers, .610" [15.49 mm] Insulator Height
[MCA] Dip Solder/Card Extender/SMT

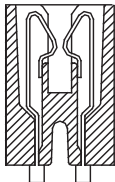
Industry Standard Part

SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board (Consult factory for other board thicknesses)
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0



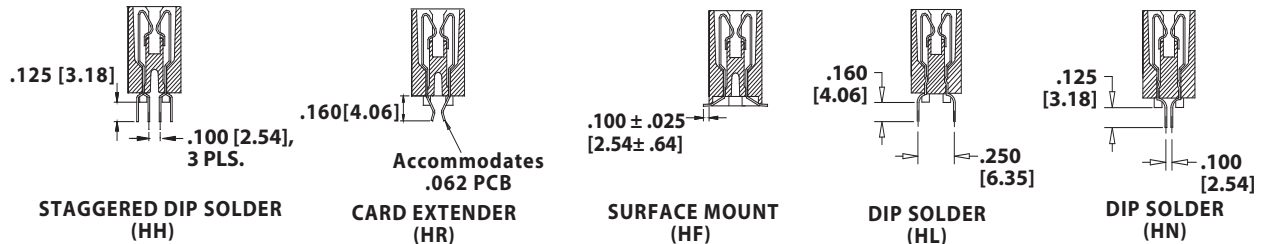
READOUT



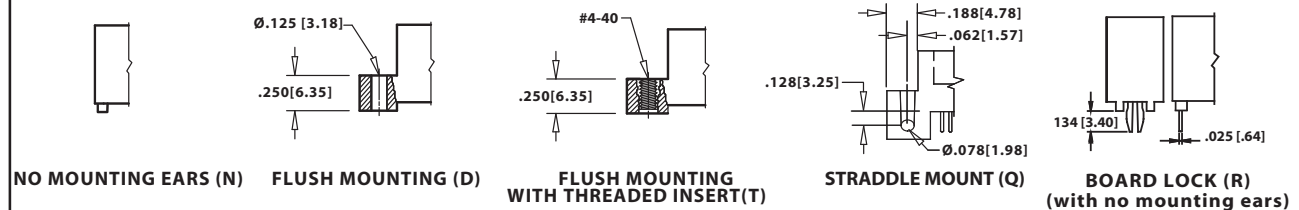
DUAL (D)

TERMINATION TYPE

Consult Factory for PC Board Layouts



MOUNTING STYLE



**.050" [1.27 mm] Contact Centers, .610" [15.49 mm] Insulator Height
[MCA] Dip Solder/Card Extender/SMT**

Industry Standard Part

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface **Termination**
B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

NUMBER OF CONTACT POSITIONS

56, 66, 91, 106

G B B 56 D HH D - S578

MODIFICATION (Consult Factory)

-S578 = Card Slot Barriers With Guide Posts
-S621 = Card Slot Barriers Without Guide Posts

MOUNTING STYLE

N = No Mounting
D = Flush Mounting
T = Flush Mounting With Threaded Insert
Q = Straddle Mount (Card Extender Only)
R = Metal Board Lock

TERMINATION TYPE

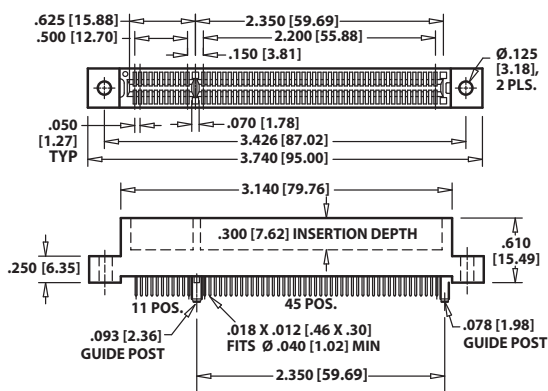
HH = Staggered Dip Solder
HR = Card Extender
HF = Surface Mount
HL = .250" [6.35mm] x .160" [4.06mm] Dip Solder
HN = .100" [2.54mm] x .125" [3.18mm] Dip Solder
(REPLACES TERMINATIONS: CH, CR, CF, CL, CN)

READOUT

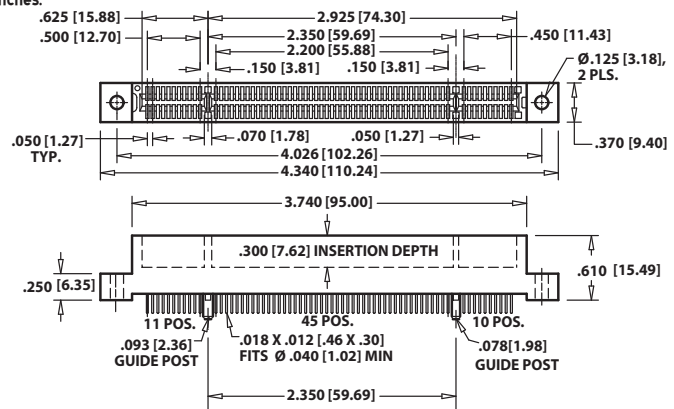
D = Dual

DIMENSIONS

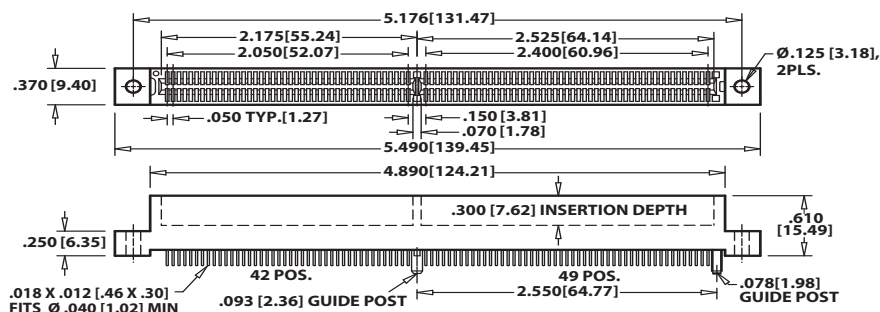
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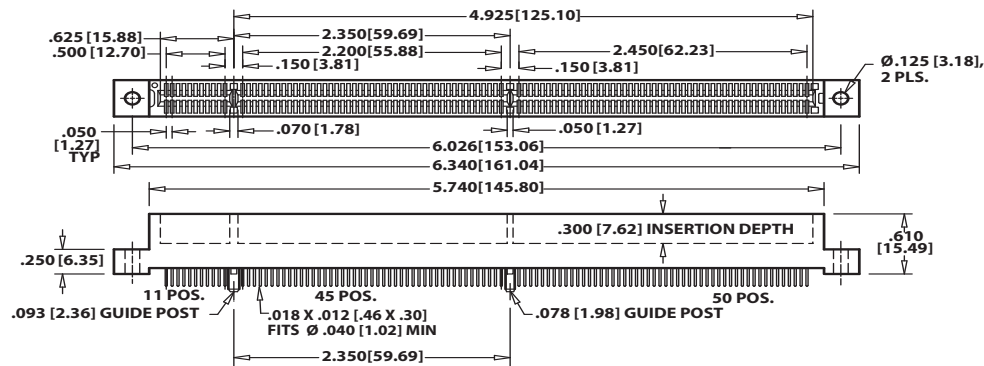
GBB56DHHD-S578, 56 (11/45) POSITIONS



GBB66DHHD-S578, 66 (11/45/10) POSITIONS



GBB91DHHD-S578, 91 (42/49) POSITIONS



GBB106DHHD-S578, 106 (11/45/50) POSITIONS



Sullins Card Edge

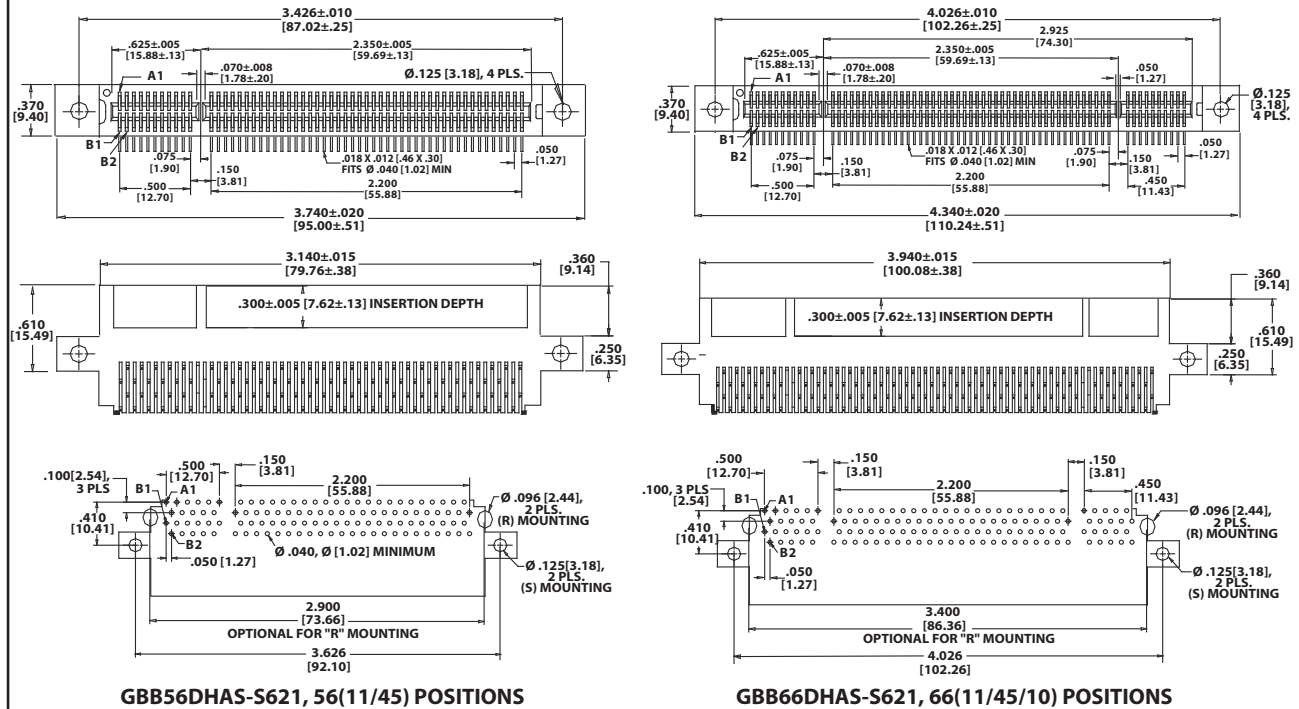
**.050" [1.27 mm] Contact Centers, .915" [23.23 mm] Insulator Height
[MCA] Right Angle**

Industry Standard Part

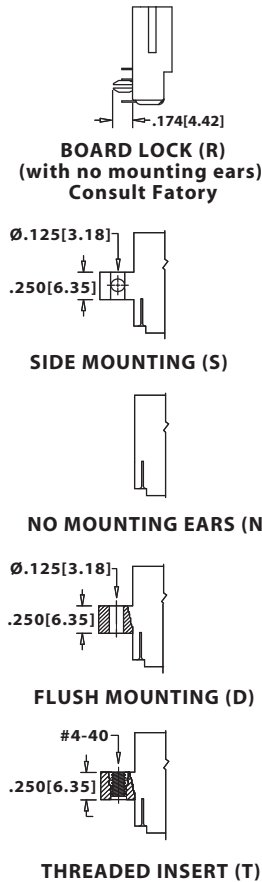
Sullins Card Edge

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

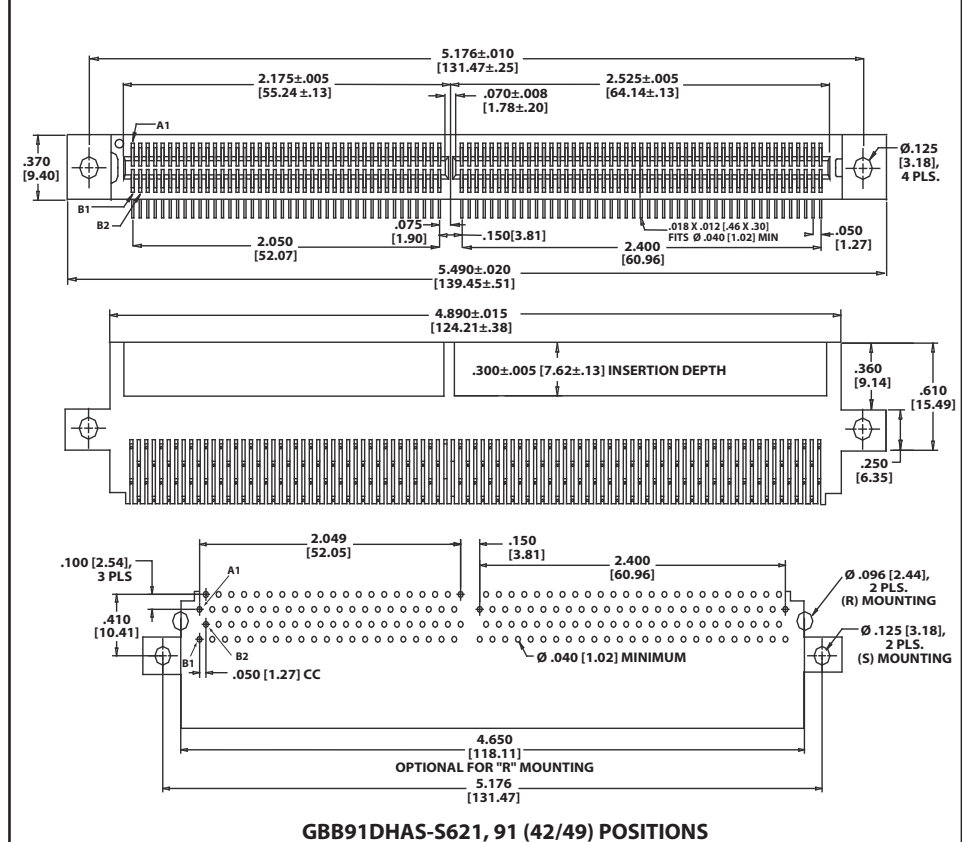


MOUNTING STYLE



DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Industry Standard Part

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface Termination
B = .00010" Gold .000100" Pure Tin, Matte
C = .00030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

G B B 56 D HA D - S621

MODIFICATION (CONSULT FACTORY)

-S621 = Card Slot Barriers Without Guide Posts

MOUNTING STYLE (Opposite Page)

S = Side Mounting
D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
R = Metal Board Lock

TERMINATION TYPE

HA = .100" [2.54] Staggered Dip Solder, Right Angle
HB = .170" [4.32] Staggered Dip Solder, Right Angle

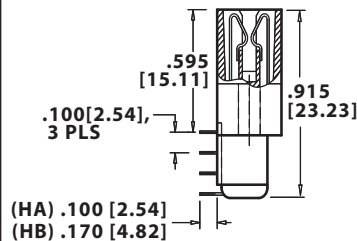
READOUT

D = Dual

NUMBER OF CONTACT POSITIONS

56 = 11/45
66 = 11/45/10
91 = 42/49
106 = 11/45/50

TERMINATION TYPE

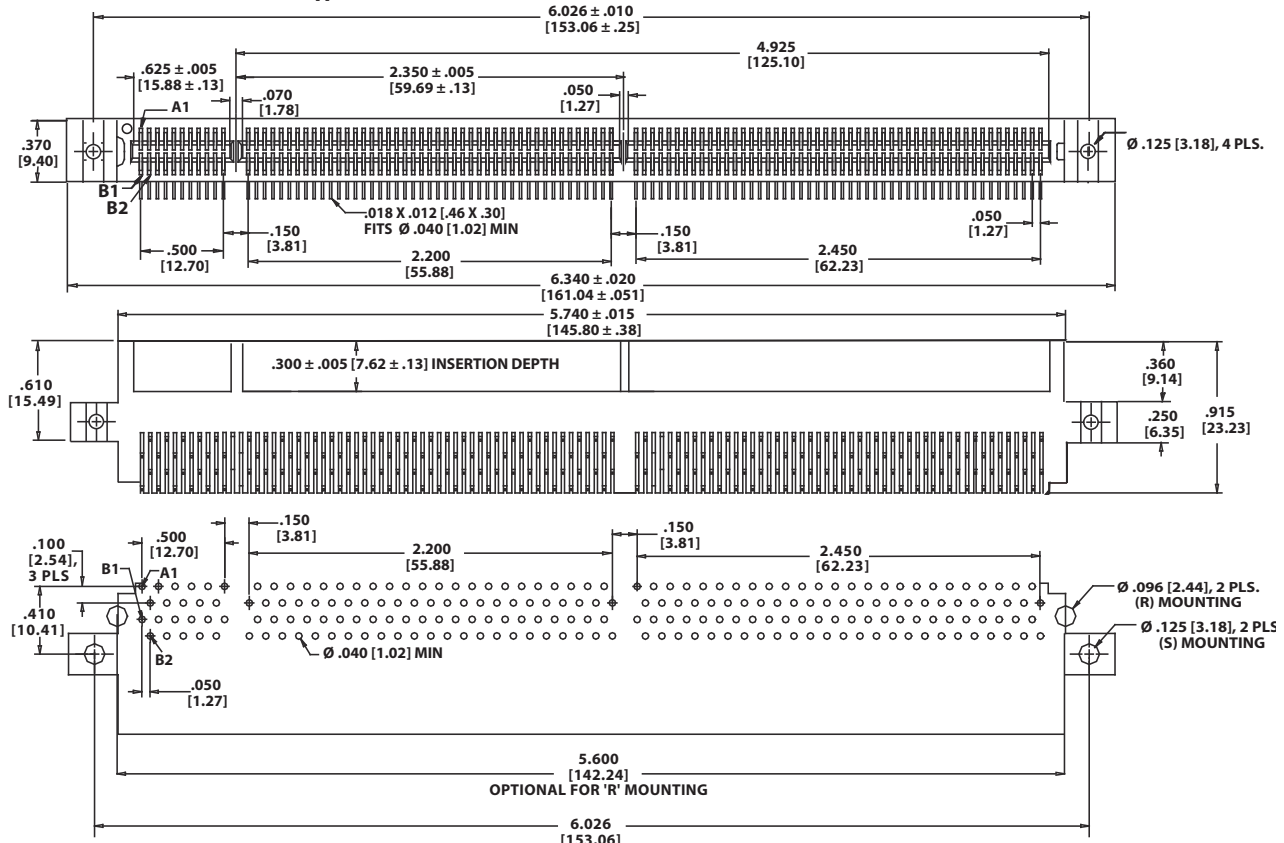


SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



BOARD LAYOUT, CONNECTOR SIDE GBB106DHAS-S621, 64 BIT, 5 VOLT

**.050" [1.27 mm] Contact Centers, .610" [15.49 mm] Insulator Height
[PCI] Dip Solder/Card Extender/SMT**

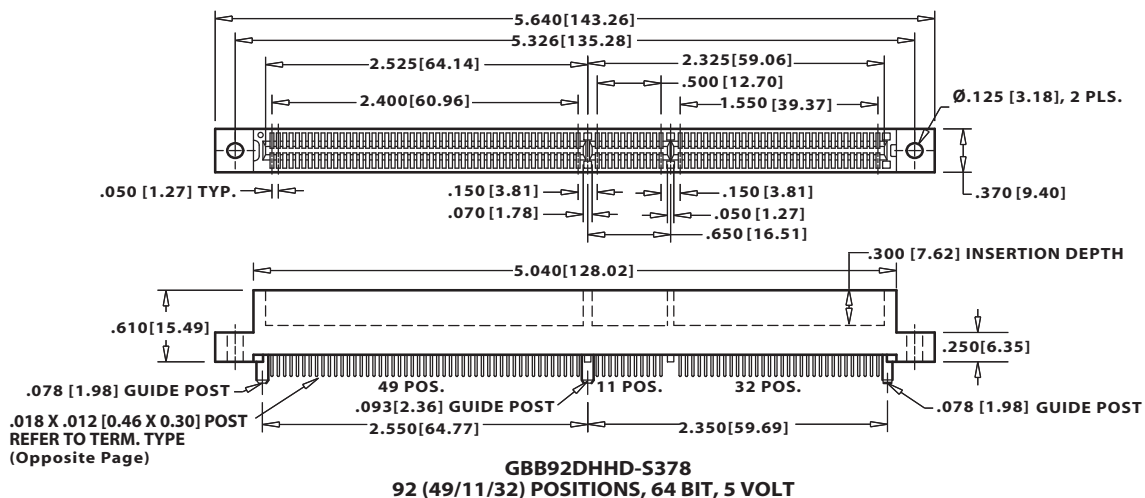
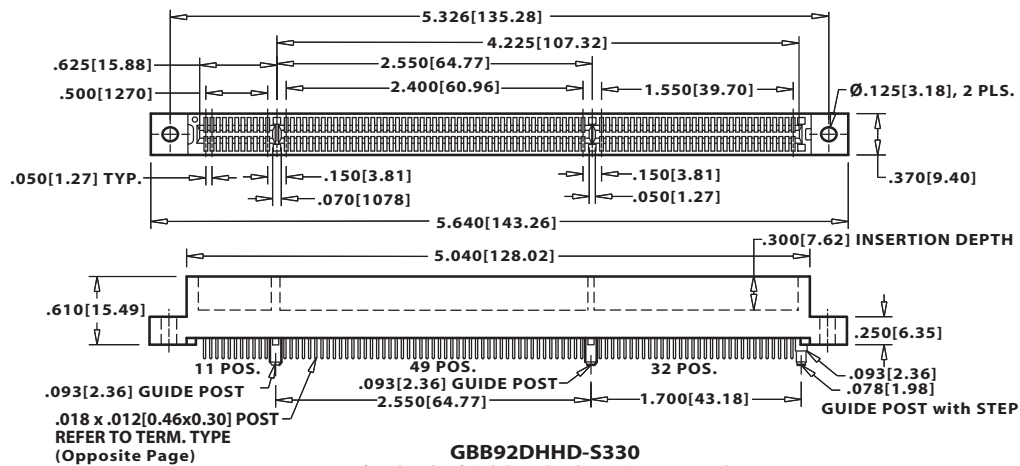
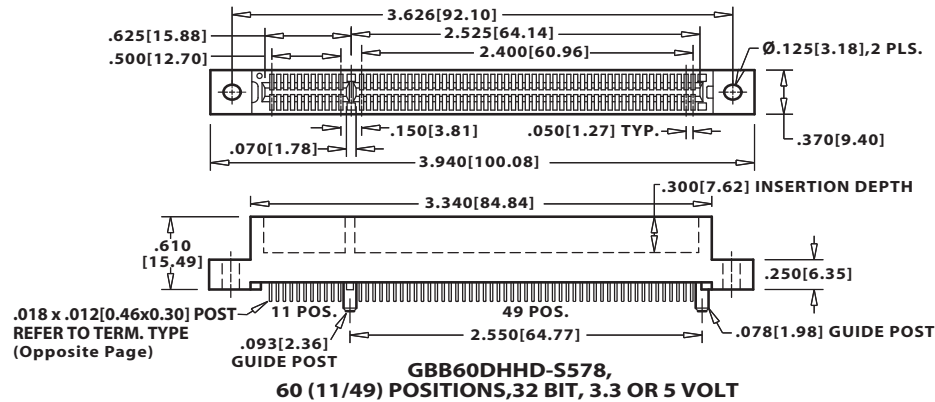
Industry Standard Part

SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

READOUT**DUAL (D)****DIMENSIONS**

Dimensions in [] are in millimeters, all others are in inches.





**.050" [1.27mm] Contact Centers, .610" [15.49 mm] Insulator Height
[PCI] Dip Solder/Card Extender/SMT**

Industry Standard Part

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte

CONTACT CENTERS

B = .050" [1.27mm]

NUMBER OF CONTACT POSITIONS

60 = 11/49 (32 Bit, 3.3 or 5 Volt)
92 = 11/49/32 (64 Bit, 3.3 Volt)
or 92 = 49/11/32 (64 Bit, 5 Volt)

READOUT

D = Dual

G B B 60 D HH D - S578

MODIFICATION (CONSULT FACTORY)

PCI WITH GUIDE POSTS

*-S578 = 60 (11/49) Positions(32 Bit, 3.3 or 5 Volt)
-S330 = 92 (11/49/32) Positions(64 Bit, 3.3 Volt)
-S378 = 92 (49/11/32) Positions(64 Bit, 5 Volt)

PCI WITHOUT GUIDE POSTS

*-S621 = 60 (11/49) Positions(32 Bit, 3.3 or 5 Volt)
-S329 = 92 (11/49/32) Positions(64 Bit, 3.3 Volt)
-S250 = 92 (49/11/32) Positions(64 Bit, 5 Volt)

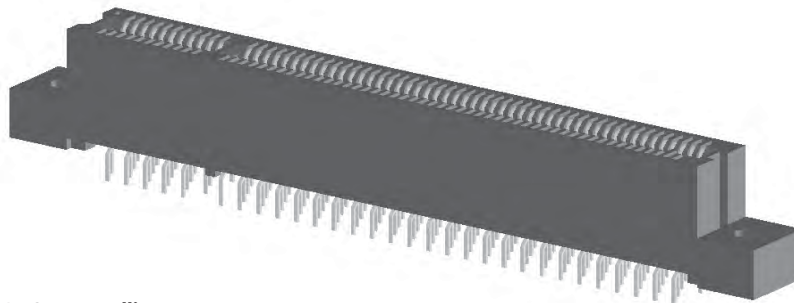
*** Turn connector or board 180° to switch from 3.3 to 5 volt**

MOUNTING STYLE

D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
Q = Straddle Mount (Card Extender Only)
R = Metal Boardlocks

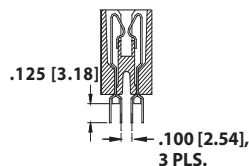
TERMINATION TYPE

HH = Staggered Dip Solder
HR = Card Extender
HF = Surface Mount
HL = .250" [6.35mm] x .160" [4.06mm] Dip Solder
HN = .100" [2.54mm] x .125" [3.18mm] Dip Solder
(REPLACES TERMINATIONS: CH, CR, CF, CL, CN)

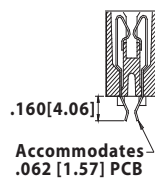


FOR PC BOARD LAYOUTS REFER TO www.sullinscorp.com

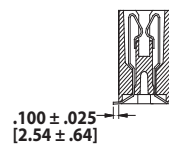
TERMINATION TYPE



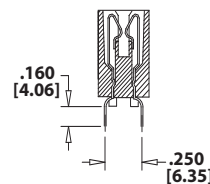
STAGGERED DIP SOLDER (HH)



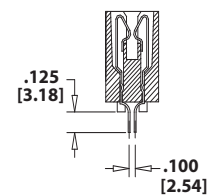
CARD EXTENDER (HR)



SURFACE MOUNT (HF)



DIP SOLDER (HL)

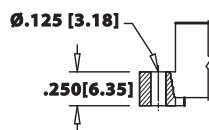


DIP SOLDER (HN)

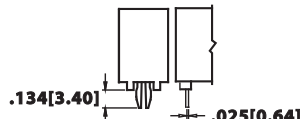
MOUNTING STYLE



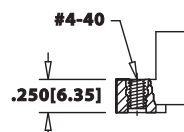
NO MOUNTING EARS (N)



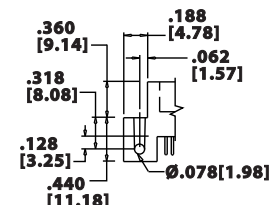
FLUSH MOUNTING (D)



METAL BOARD LOCK (with no mounting ears) (R)



FLUSH MOUNTING WITH THREADED INSERT (T)



STRADDLE MOUNT (Q) Formerly (Z)



Sullins Card Edge

MICROPLASTICS
SULLINS

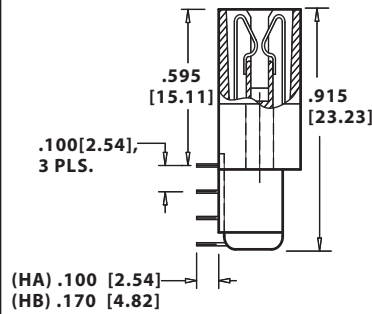
**.050" [1.27 mm] Contact Centers, .915" [23.23 mm] Insulator Height
[PCI] Right Angle**

Industry Standard Part

SPECIFICATIONS

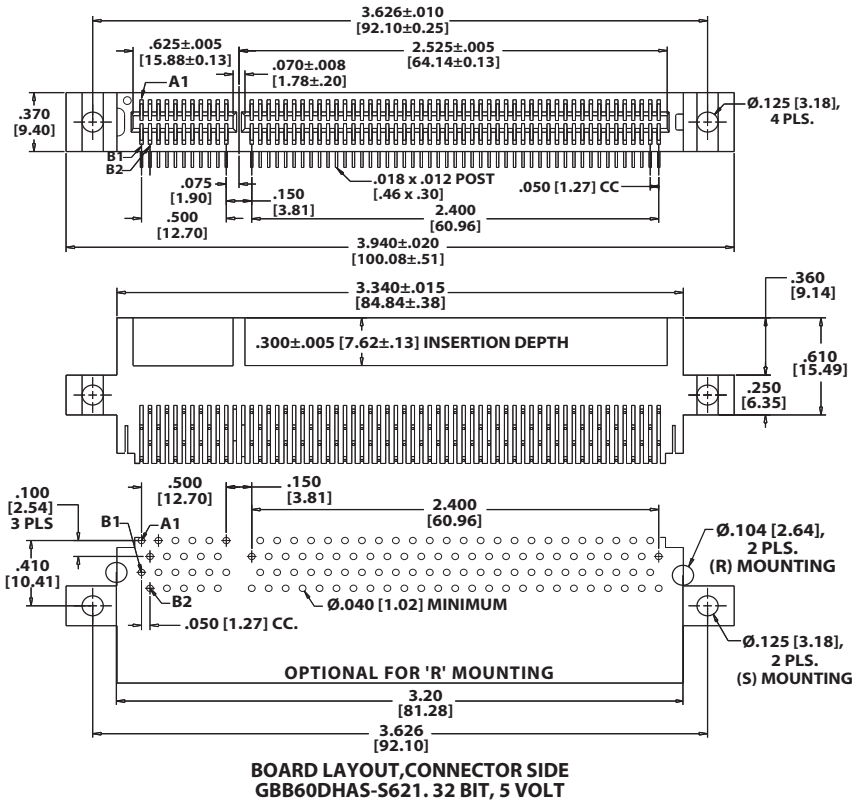
- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum
- UL Flammability Rating: 94V-0

TERMINATION TYPE



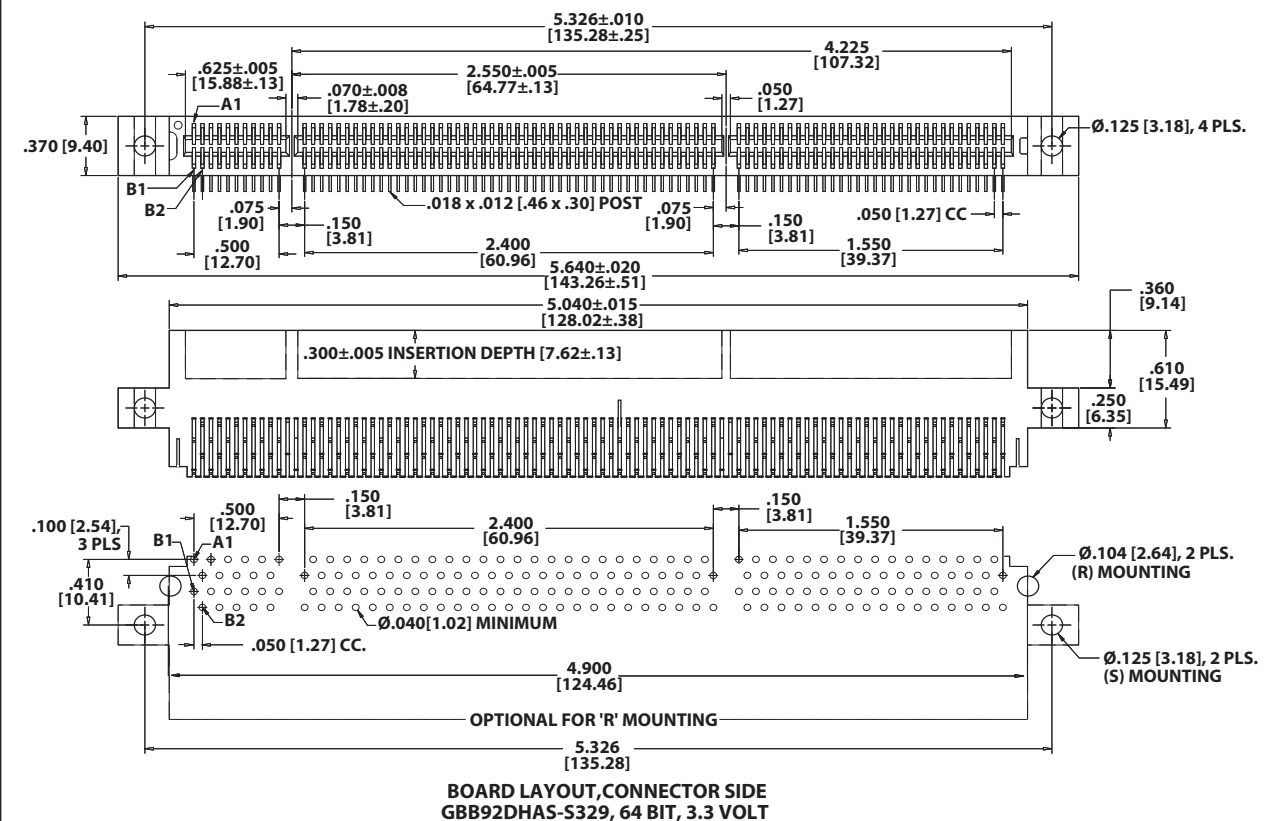
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



**.050" [1.27 mm] Contact Centers, .915" [23.23 mm] Insulator Height
[PCI] Right Angle**

Industry Standard Part

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

G = PA9T/Phosphor Bronze
R = PPS/Phosphor Bronze
J = PA9T/Beryllium Copper
A = PPS/Beryllium Copper

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B	=	.000010" Gold	.000100" Pure Tin, Matte
C	=	.000030" Gold	.000100" Pure Tin, Matte

CONTACT CENTERS

$$B = .050'' [1.27\text{mm}]$$

NUMBER OF CONTACT POSITIONS

60 = 11/49 (32 Bit, 3.3 or 5 Volt)
92 = 11/49/32 (64 Bit, 3.3 Volt)
or 92 = 49/11/32 (64 Bit, 5 Volt)

G B B 60 D HA D - S793

— **MODIFICATION** (CONSULT FACTORY)

-S793 = 60(11/49) Reverse Bend (32 Bit, 3.3 Volt)
 -S621 = 60(11/49) Positions (32 Bit, 5 Volt)
 -S329 = 92(11/49/32) Positions (64 Bit, 3.3 Volt)
 -S250 = 92(49/11/32) Positions (64 Bit, 5 Volt)

— MOUNTING STYLE

S = Side Mounting
D = Flush Mounting
N = No Mounting
T = Flush Mounting With Threaded Insert
R = Metal Board Lock

— **TERMINATION TYPE (Opposite Page)**

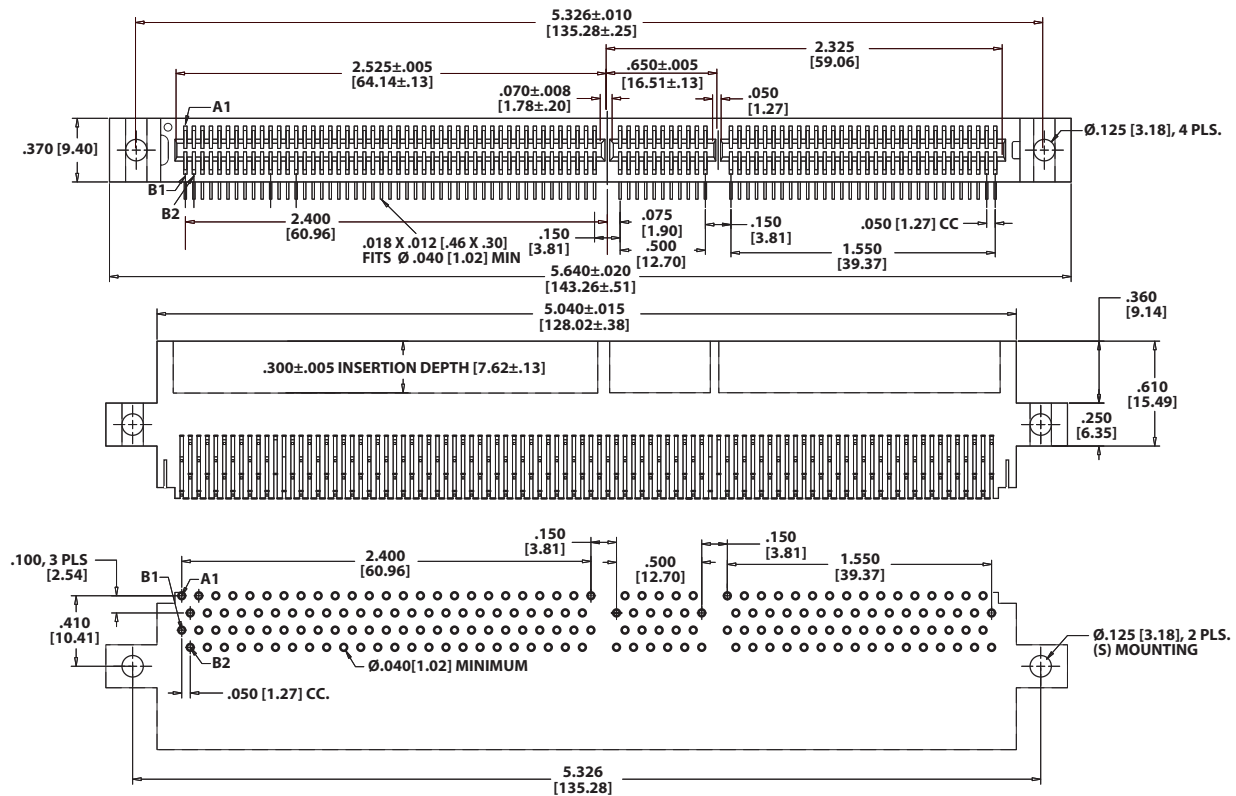
HA = .100" [2.54mm] Staggered Dip Solder
HB = .170" [4.32mm] Staggered Dip Solder

— READOUT

D = Dual

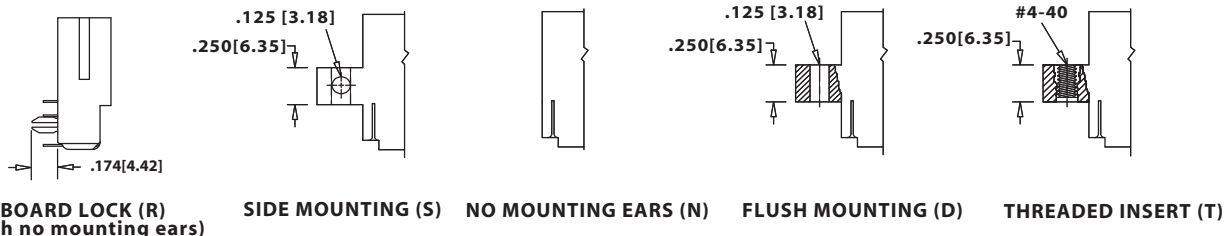
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



BOARD LAYOUT, CONNECTOR SIDE
GBB92DHAS-S250, 64 BIT, 5 VOLT

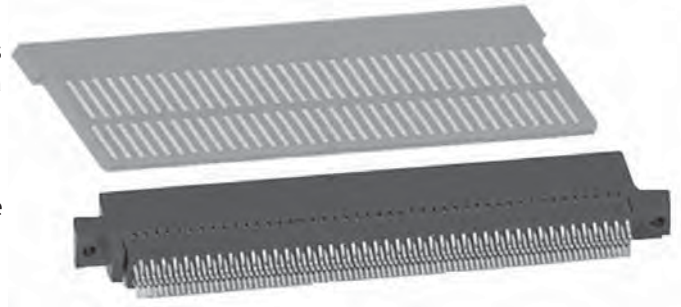
MOUNTING STYLE





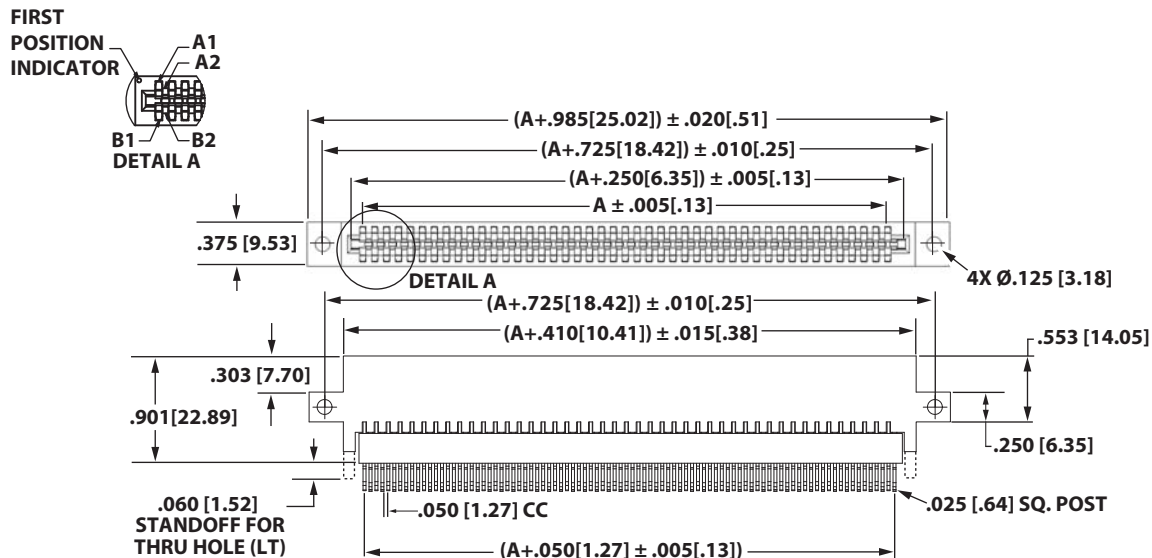
SPECIFICATIONS

- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062" \pm .008" [1.57 \pm .20] or .093" \pm .008" [2.36 \pm .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings

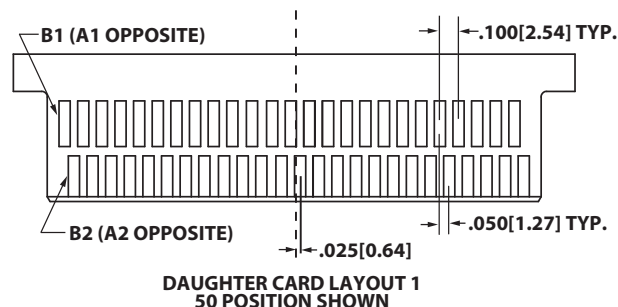


HIGH DENSITY HIGH TEMPERATURE HIGH CYCLE HIGH RELIABILITY

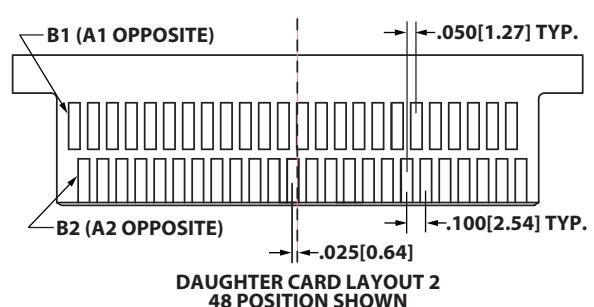
DIMENSIONS



DAUGHTER CARD LAYOUT (1)



DAUGHTER CARD LAYOUT (2)



Bi-Level, .050" [1.27 mm] / .100" [2.54 mm] Contact Centers
High Density, Card Extender, Dip Solder for .062" [1.57] or .093" [2.36]

PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
J = PA9T/Beryllium Copper
Operating Temperature: 150°C

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface **Termination**

- B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
Y = .000030" Gold .000005" Gold

CONTACT CENTERS

- B = .050" [1.27mm]

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

- S1176 = For .093"±.008" [2.36 ± .20]
Thick Mating PCB

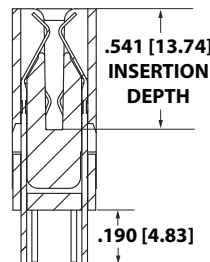
Positions	Dimension A (see opposite page)			Daughter Card Layout
	No. of Contacts	Inches	[MM]	
06	12	0.200	5.08	1
08*	16	0.300	7.62	2
10	20	0.400	10.16	1
12	24	0.500	12.70	2
14*	28	0.600	15.24	1
16*	32	0.700	17.78	2
18*	36	0.800	20.32	1
20	40	0.900	22.86	2
22*	44	1.000	25.40	1
24	48	1.100	27.94	2
26*	52	1.200	30.48	1
28*	56	1.300	33.02	2
30	60	1.400	35.56	1
32*	64	1.500	38.10	2
34	68	1.600	40.64	1
36	72	1.700	43.18	2
38*	76	1.800	45.72	1
40	80	1.900	48.26	2
42*	84	2.000	50.80	1
44	88	2.100	53.34	2
46*	92	2.200	55.88	1
48*	96	2.300	58.42	2
50	100	2.400	60.96	1
52	104	2.500	63.50	2
54*	108	2.600	66.04	1
56	112	2.700	68.58	2
58*	116	2.800	71.12	1
60	120	2.900	73.66	2
62*	124	3.000	76.20	1
64*	128	3.100	78.74	2
66*	132	3.200	81.28	1
68*	136	3.300	83.82	2
70	140	3.400	86.36	1
72	144	3.500	88.90	2
74*	148	3.600	91.44	1
76	152	3.700	93.98	2
78	156	3.800	96.52	1
80	160	3.900	99.06	2
82*	164	4.000	101.60	1
84*	168	4.100	104.14	2
86	172	4.200	106.68	1
88*	176	4.300	109.22	2
90	180	4.400	111.76	1

* Consult Factory For Availability.

TERMINATION

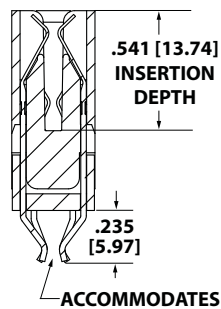
DIP SOLDER

LT



CARD EXTENDER

LR



MOUNTING STYLE

H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING EARS	



Sullins Card Edge

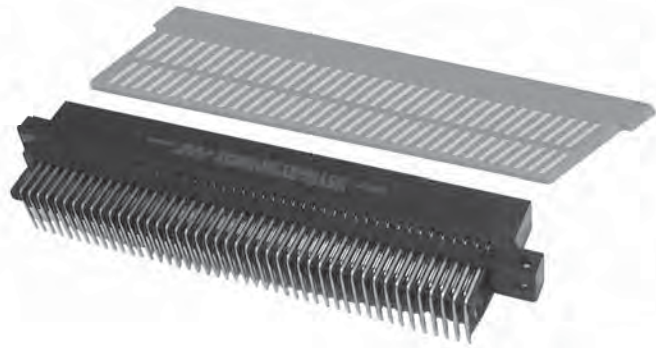
MICROPLASTICS
SULLINS

U.S. Patent NO. US 6,790,054 B1

Bi-Level, .050" [1.27 mm] / .100" [2.54 mm] Contact Centers
High Density, Right Angle for .062" [1.57] or .093" [2.36]

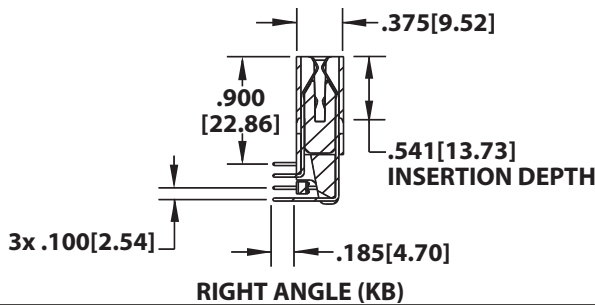
SPECIFICATIONS

- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062" \pm .008" [1.57 \pm .20] or .093" \pm .008" [2.36 \pm .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings



Sullins Card Edge

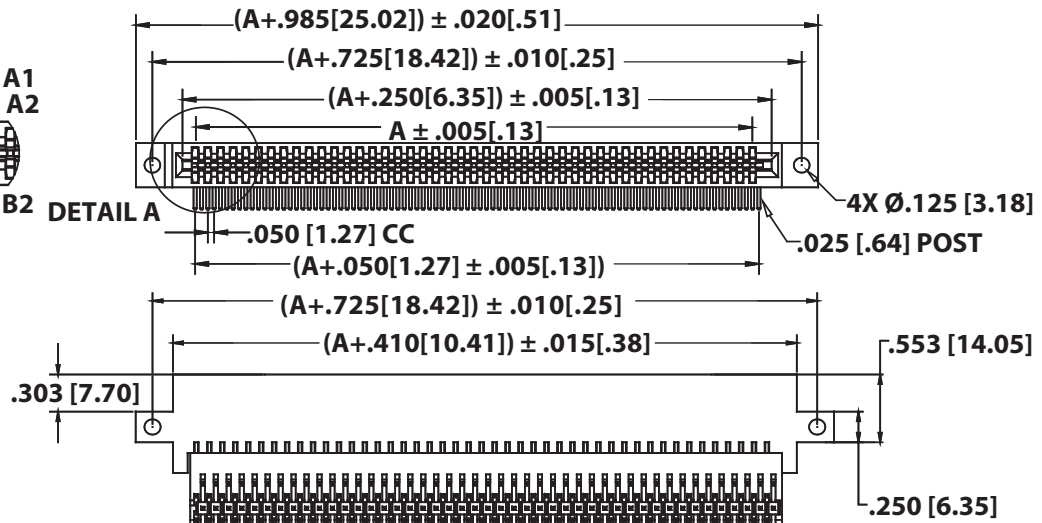
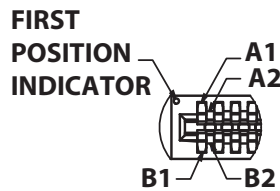
TERMINATION TYPE



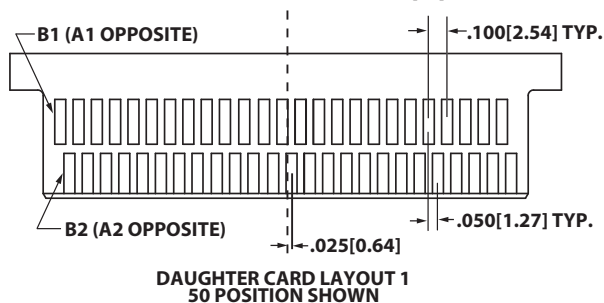
HIGH DENSITY
HIGH TEMPERATURE
HIGH CYCLE
HIGH RELIABILITY

DIMENSIONS

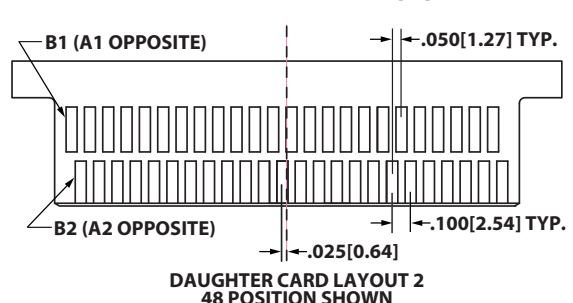
Dimensions in [] are in millimeters, all others are in inches.



DAUGHTER CARD LAYOUT (1)



DAUGHTER CARD LAYOUT (2)



PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
 Operating Temperature: 125°C
 J = PA9T/Beryllium Copper
 Operating Temperature: 150°C

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

- B = .000010" Gold .000100" Pure Tin, Matte
 C = .000030" Gold .000100" Pure Tin, Matte
 Y = .000030" Gold .000005" Gold

CONTACT CENTERS

- B = .050" [1.27mm]

J C B 10 D KB S - S1075

OMIT FOR STANDARD

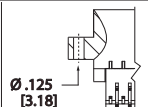
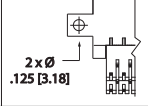
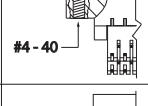
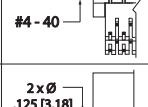
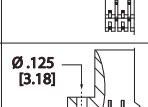
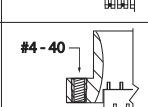
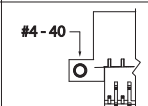
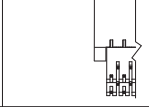
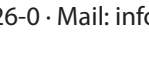
-S1176 = For .093" ± .008" [2.36 ± .20]
 Thick Mating PCB

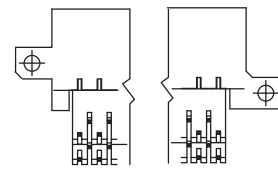
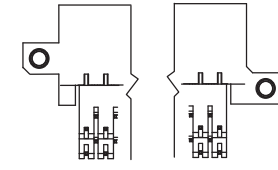
S - S1075 = Staggered Ears with
 Side Mounting Holes

A - S1076 = Staggered Ears with
 #4-40 Threaded Inserts

Positions	Dimension A (see opposite page)			Daughter Card Layout
	No. of Contacts	Inches	[MM]	
06	12	0.200	5.08	1
08*	16	0.300	7.62	2
10	20	0.400	10.16	1
12	24	0.500	12.70	2
14*	28	0.600	15.24	1
16*	32	0.700	17.78	2
18*	36	0.800	20.32	1
20	40	0.900	22.86	2
22*	44	1.000	25.40	1
24	48	1.100	27.94	2
26*	52	1.200	30.48	1
28*	56	1.300	33.02	2
30	60	1.400	35.56	1
32*	64	1.500	38.10	2
34	68	1.600	40.64	1
36	72	1.700	43.18	2
38*	76	1.800	45.72	1
40	80	1.900	48.26	2
42*	84	2.000	50.80	1
44	88	2.100	53.34	2
46*	92	2.200	55.88	1
48*	96	2.300	58.42	2
50	100	2.400	60.96	1
52	104	2.500	63.50	2
54*	108	2.600	66.04	1
56	112	2.700	68.58	2
58*	116	2.800	71.12	1
60	120	2.900	73.66	2
62*	124	3.000	76.20	1
64*	128	3.100	78.74	2
66*	132	3.200	81.28	1
68*	136	3.300	83.82	2
70	140	3.400	86.36	1
72	144	3.500	88.90	2
74*	148	3.600	91.44	1
76	152	3.700	93.98	2
78	156	3.800	96.52	1
80	160	3.900	99.06	2
82*	164	4.000	101.60	1
84*	168	4.100	104.14	2
86	172	4.200	106.68	1
88*	176	4.300	109.22	2
90	180	4.400	111.76	1

* Consult Factory For Availability.

MOUNTING STYLE		
H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING EARS	

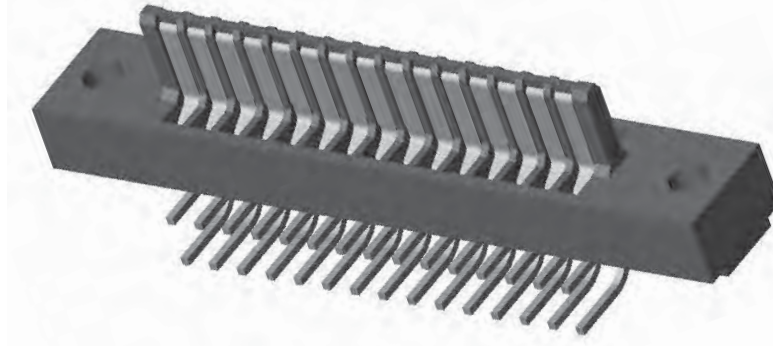
MODIFICATION CODE
(CONSULT FACTORY)

STAGGERED EARS WITH SIDE MOUNTING HOLES (S-S1075)

STAGGERED EARS WITH #4-40 THREADED INSERTS (A-S1076)



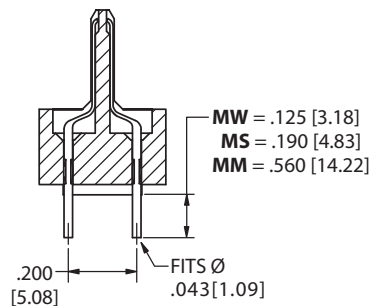
**.100" [2.54 mm] Contact Centers, .540" [13.72 mm] Insulator Height,
Male Card Edge, Dip Solder/Right Angle/Card Extender**

SPECIFICATIONS

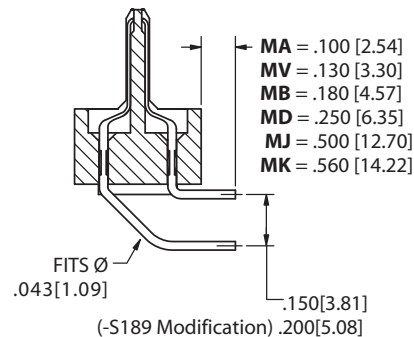
- Compatible with .431" or .610" Insulator Height Card Edges
- Mates in place of .062" [1.57] PCB
- PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- Consult Factory for other Contact Centers
- UL Flammability Rating: 94V-0



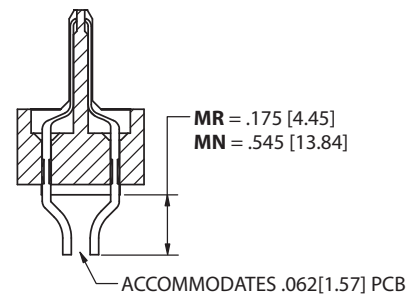
TERMINATION TYPE



**DIP SOLDER (MW, MS)
WIRE WRAP (MM)**

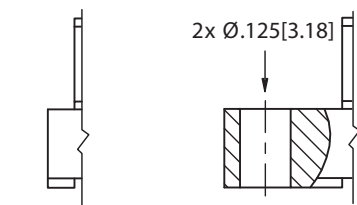


**RIGHT ANGLE
(MA, MV, MB, MD, MJ, MK)**

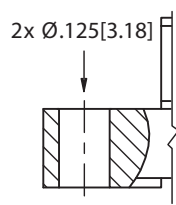


**CARD EXTENDER
(MR, MN)**

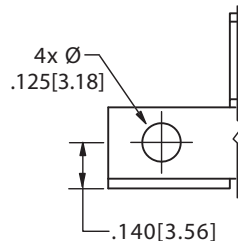
MOUNTING STYLE



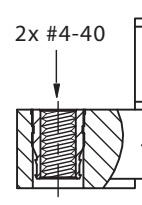
**NO
MOUNTING
(N)**



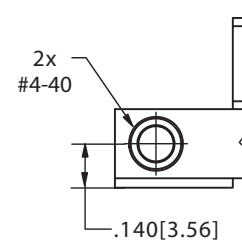
**FLUSH with
CLEARANCE HOLES
(D)**



**FLUSH, SIDE MOUNTING
with CLEARANCE HOLES
(Z)**



**FLUSH with
THREADED INSERT
(T)**



**FLUSH, with SIDE MOUNTED
THREADED INSERT
(V)**

**.100" [2.54 mm] Contact Centers, .540" [13.72 mm] Insulator Height,
Male Card Edge, Dip Solder/Right Angle/Card Extender**



PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze
Operating Temperature: -65°C to 125°C
Processing Temperature: 260°C for 10 seconds Max.
- G = PA9T/Phosphor Bronze
Operating Temperature: -65°C to 150°C
Processing Temperature: 260°C for 120 seconds Max.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

- B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
Y = .000030" Gold .000005" Gold

Termination

CONTACT CENTERS

- C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

04 thru 60 Positions (Contact Factory for Positions Not Shown)

E B C 25 M MW D - Sxxx

MODIFICATIONS (Consult Factory)

Omit for Standard
-S189 = .200" Row Spacing (Right Angle Only)

MOUNTING STYLE (Opposite Page)

- N = No Mounting
D = .250" Ears, Flush Mounting, .125" [3.18mm] Dia
Z = .250" Ears, Flush, Side Mounting
T = .250" Ears, Flush Mounting, #4-40 Threaded Insert
V = Flush, Side Mounting, #4-40 Threaded Insert

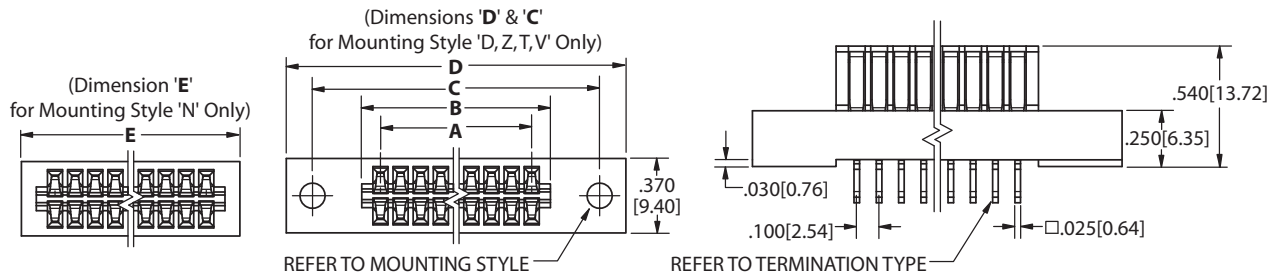
TERMINATION TYPE (Opposite Page)

- MW, MS = Dip Solder
MM = Wire Wrap
MA, MV, MB = Right Angle
MD, MJ, MK = Right Angle
MR, MN = Card Extender

M = Male Edgecard

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]				
	A±.008	B±.008	C±.010	D±.020	E±.020 'N' Mtg. Only	A±0.20	B±0.20	C±0.25	D±0.51	E±0.51 'N' Mtg. Only
04/08	0.300	0.486	0.975	1.236	0.656	7.62	12.34	24.77	31.39	16.66
05/10	0.400	0.586	1.075	1.336	0.756	10.16	14.88	27.31	33.93	19.20
06/12	0.500	0.686	1.175	1.436	0.856	12.70	17.42	29.85	36.47	21.74
07/14*	0.600	0.786	1.275	1.536	0.956	15.24	19.96	32.39	39.01	24.28
08/16*	0.700	0.886	1.375	1.636	1.056	17.78	22.50	34.93	41.55	26.82
10/20	0.900	1.086	1.575	1.836	1.256	22.86	27.58	40.01	46.63	31.90
12/24	1.100	1.286	1.775	2.036	1.456	27.94	32.66	45.09	51.71	36.98
13/26*	1.200	1.386	1.875	2.136	1.556	30.48	35.20	47.63	54.25	39.52
15/30	1.400	1.586	2.075	2.336	1.756	35.56	40.28	52.71	59.33	44.60
17/34	1.600	1.786	2.275	2.536	1.956	40.64	45.36	57.79	64.41	49.68
18/36	1.700	1.886	2.375	2.636	2.056	43.18	47.90	60.33	66.95	52.22
19/38	1.800	1.986	2.475	2.736	2.156	45.72	50.44	62.87	69.49	54.76
20/40	1.900	2.086	2.575	2.836	2.256	48.26	52.98	65.41	72.03	57.30
22/44	2.100	2.286	2.775	3.036	2.456	53.34	58.06	70.49	77.11	62.38
23/46	2.200	2.386	2.875	3.136	2.556	55.88	60.60	73.03	79.65	64.92
24/48	2.300	2.486	2.975	3.236	2.656	58.42	63.14	75.57	82.19	67.46
25/50*	2.400	2.586	3.075	3.336	2.756	60.96	65.68	78.11	84.73	70.00
28/56*	2.700	2.886	3.375	3.636	3.056	68.58	73.30	85.73	92.35	77.62
30/60	2.900	3.086	3.575	3.836	3.256	73.66	78.38	90.81	97.43	82.70
31/62*	3.000	3.186	3.675	3.936	3.356	76.20	80.92	93.35	99.97	85.24
35/70*	3.400	3.586	4.075	4.336	3.756	86.36	91.08	103.51	110.13	95.40
36/72	3.500	3.686	4.175	4.436	3.856	88.90	93.62	106.05	112.67	97.94
40/80*	3.900	4.086	4.575	4.836	4.256	99.06	103.78	116.21	122.83	108.10
43/86*	4.200	4.386	4.875	5.136	4.556	106.68	111.40	123.83	130.45	115.72
44/88*	4.300	4.486	4.975	5.236	4.656	109.22	113.94	126.37	132.99	118.26
49/98*	4.800	4.986	5.475	5.736	5.156	121.92	126.64	139.07	145.69	130.96
50/100	4.900	5.086	5.575	5.836	5.256	124.46	129.18	141.61	148.23	133.50
52/104*	5.100	5.286	5.775	6.036	5.456	129.54	134.26	146.69	153.31	138.58
55/110*	5.400	5.586	6.075	6.336	5.756	137.16	141.88	154.31	160.93	146.20
56/112*	5.500	5.686	'N' Mounting Only		5.856	139.70	144.42	'N' Mounting Only		148.74
57/114*	5.600	5.786			5.956	142.24	146.96			151.28
58/116*	5.700	5.886			6.056	144.78	149.50			153.82
59/118*	5.800	5.986			6.156	147.32	152.04			156.36
60/120	5.900	6.086			6.256	149.86	154.58			158.90

* Consult Factory For Availability.



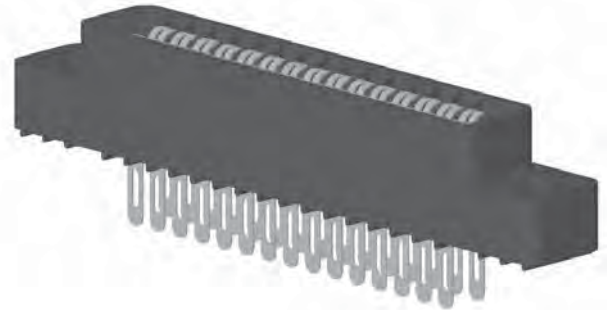
Sullins Card Edge

MICROPLASTICS
SULLINS

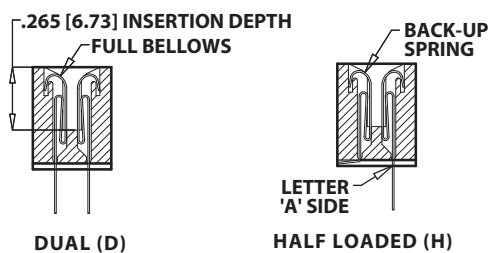
.100" [2.54 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB

SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- PBT, PPS, PA9T or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

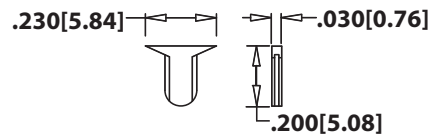


READOUT



POLARIZING KEYS (For .062" Mating PCB Only)

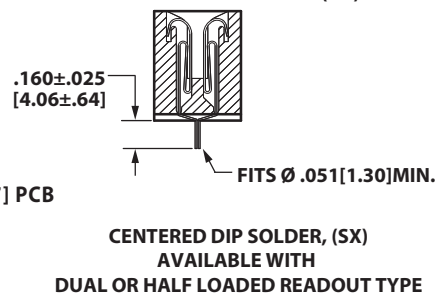
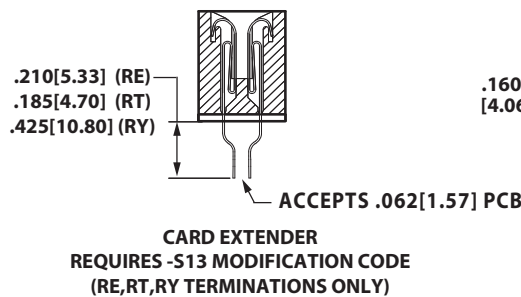
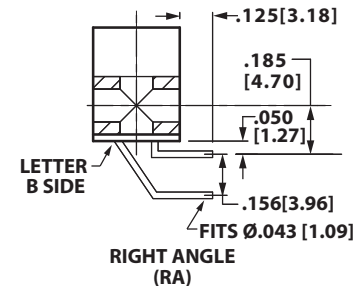
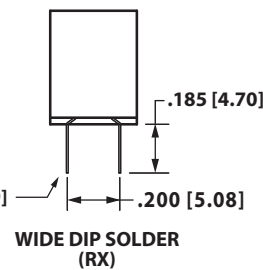
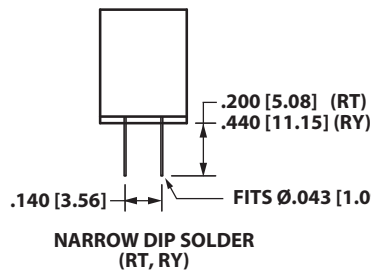
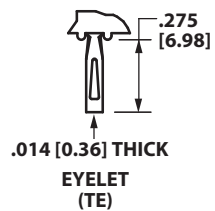
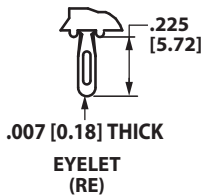
PLA-K1
KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)



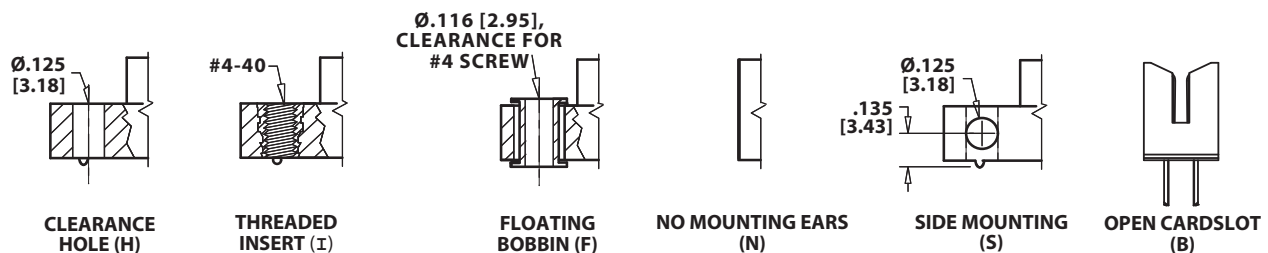
CONSULT FACTORY FOR MOLDED-IN KEY

TERMINATION TYPE

EYELET ACCEPTS
3-#26 AWG



MOUNTING STYLE





**.100" [2.54 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper

*F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines

*C = PPS/Beryllium Nickel (Overall Gold Plating Only)

*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)

*Consult Factory for availability.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

E B C 43 D RE H - Sxxx

MODIFICATIONS (Consult Factory)

OMIT FOR STANDARD

-S13 = Card Extender Accepts .062" [1.57] PCB
(RE, RT, RY Terminations Only)

-S734 = .031" ± .008" [.79 ± .20] Thick Mating PCB

MOUNTING STYLE (Opposite Page)

H = .125" [3.18mm] Clearance Holes

N = No Mounting

B = Open Cardslot

S = Side Mounting

I = Threaded Insert

F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

RA = Right Angle

RE = Eyelet (Standard)

TE = Eyelet (Overall Plated Only)

RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder

RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder

RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder

SX = .110" [2.79mm] Centered Dip Solder

READOUT (Opposite Page)

D = Dual

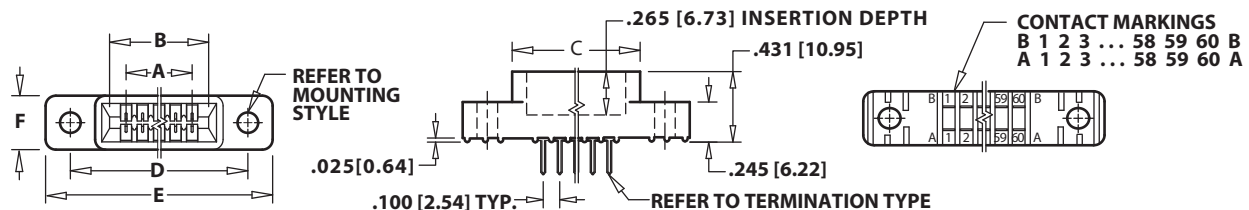
H = Half Loaded

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential: Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
04/08*	0.300	0.500	0.675	0.975	1.275	0.330	7.62	12.70	17.15	24.77	32.39	8.38
05/10	0.400	0.600	0.775	1.075	1.375		10.16	15.24	19.69	27.31	34.93	
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
23/46*	2.200	2.400	2.575	2.875	3.175		55.88	60.96	65.41	73.03	80.65	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
31/62	3.000	3.200	3.375	3.675	3.975	0.400	76.20	81.28	85.73	93.35	100.97	10.16
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
52/104*	5.100	5.300	5.475	5.775	6.075		129.54	134.62	139.07	146.69	154.31	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	

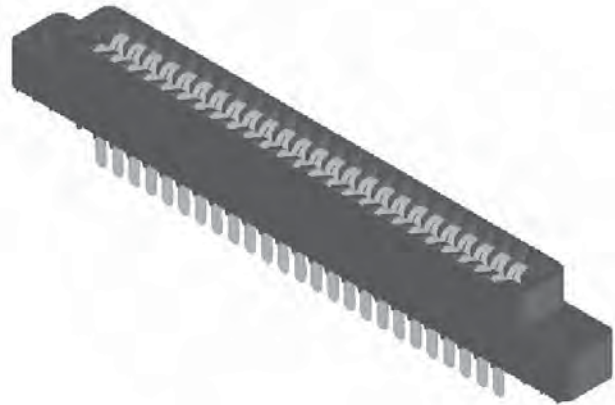
* Consult Factory For Availability



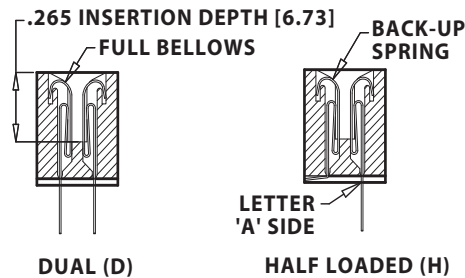
.100" [2.54 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB

SPECIFICATIONS

- Accommodates .093" \pm .008" [2.36 \pm .20] PC board
- PBT, PPS, PA9T, or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



READOUT

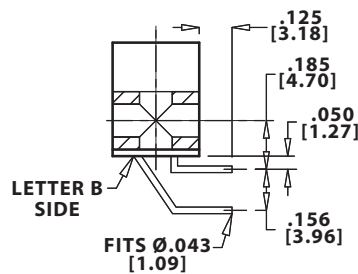


TERMINATION TYPE

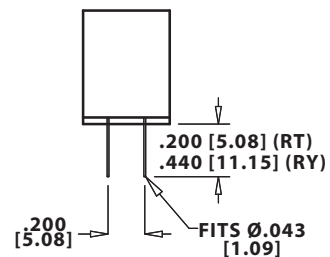
EYELET ACCEPTS 3-#26 AWG



EYELET
(RE)

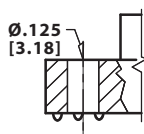


RIGHT ANGLE
(RA)

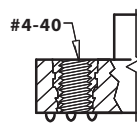


NARROW DIP SOLDER
(RT,RY)

MOUNTING STYLE



CLEARANCE
HOLE (H)



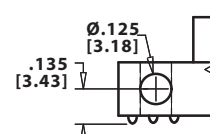
THREADED
INSERT (I)



FLOATING
BOBBIN (F)



NO MOUNTING EARS
(N)



SIDE MOUNTING
(S)

**.100" [2.54mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
*F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines
*C = PPS/Beryllium Nickel (Overall Gold Plating Only)
*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
*Consult Factory for availability.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

MODIFICATION (CONSULT FACTORY)

-S93 = .093" ± .008" [2.36 ± .20] Thick PCB

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
N = No Mounting
S = Side Mounting
I = Threaded Insert
F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

- RA = Right Angle
RE = Eyelet
RT = .200" [5.08mm] x .200" [5.08mm] Dip Solder
RY = .200" [5.08mm] x .440" [11.18mm] Dip Solder

READOUT (Opposite Page)

- D = Dual
H = Half Loaded

NUMBER OF CONTACT POSITIONS

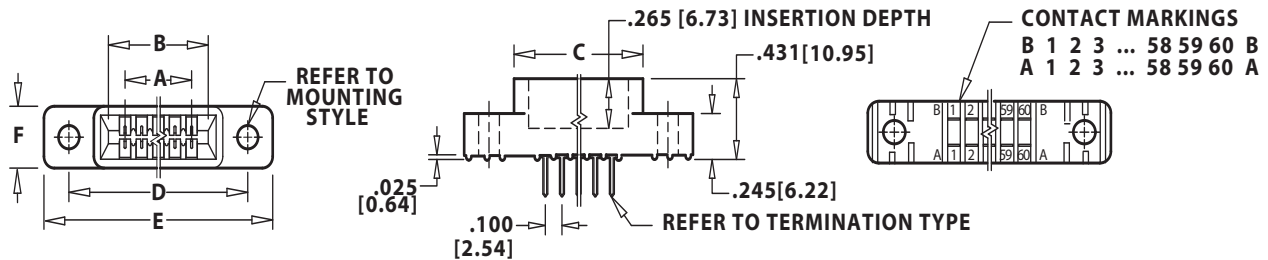
See Chart Below

CONTACT CENTERS

C = .100" [2.54mm]

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

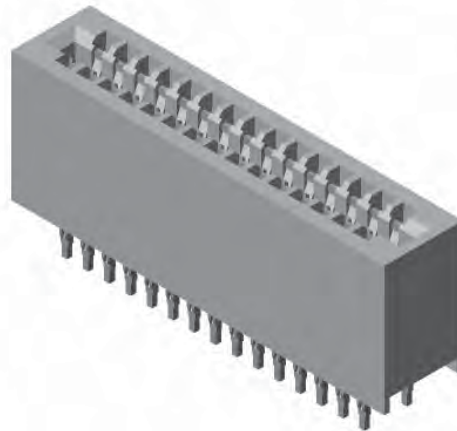
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
04/08*	0.300	0.500	0.675	0.975	1.275		7.62	12.70	17.15	24.77	32.39	
05/10	0.400	0.600	0.775	1.075	1.375		10.16	15.24	19.69	27.31	34.93	
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
23/46*	2.200	2.400	2.575	2.875	3.175		55.88	60.96	65.41	73.03	80.65	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875		73.66	78.74	83.19	90.81	98.43	
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
52/104*	5.100	5.300	5.475	5.775	6.075		129.54	134.62	139.07	146.69	154.31	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/125	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	

* Consult Factory For Availability

.100" [2.54 mm] Contact Centers, .550" [13.97 mm] or .610" [15.49 mm] Profile Press Fit

SPECIFICATIONS

- UL Flammability Rating: 94V-0
- Designed to meet specifications of Bellcore specification TR-TSY-00078.
- Flat rock installation eliminates the need for any special installation tool.
- Integrally molded scoops available to assist daughter card entry.
- Various insulator options per customer requirements, including:
 - Open ended on one side
 - Open ended on both sides to accommodate end to end mounting
 - Molded in keys per customer requirements.



FEATURES

COMPLIANT SECTION INSERTION FORCE

40 lbs maximum per contact

COMPLIANT SECTION WITHDRAWAL FORCE

10 lbs minimum per contact

HOLE SIZE REQUIREMENTS

Drilled Hole Diameter: .0453" \pm .0010" [1.15 \pm .03]

Plating: .001" [.03] to .003" [.08] Copper and .0003" [.01] Minimum Tin

FINISHED HOLE DIAMETER

$$.040'' \pm .003'' [1.02 \pm .08]$$
SUITABLE FOR .062" [1.57] DAUGHTER CARD

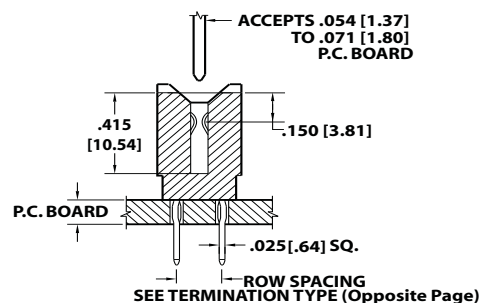
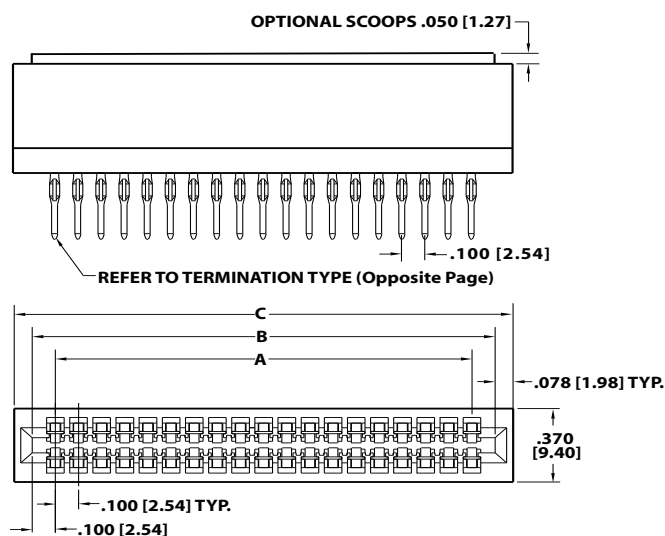
RECOMMENDED MOTHERBOARD THICKNESS

.093" to .125" [2.36 to 3.18]

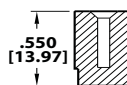
UL-CUL RECOGNIZED

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



-S1136 (WITH SCOOPS) SHOWN ABOVE



WITHOUT STANDOFFS



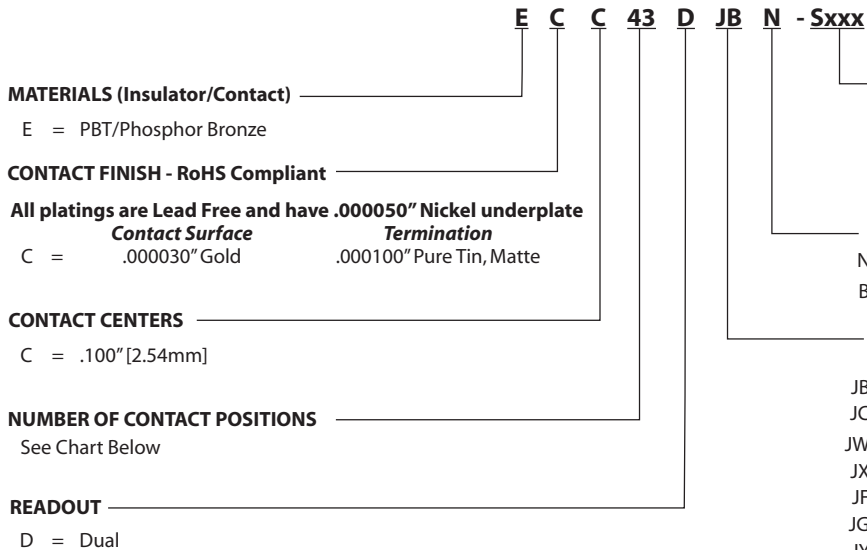
WITH STANDOFFS

STANDOFF VIEWS WITH NO SCOOPS SHOWN

**.100" [2.54 mm] Contact Centers, .550" [13.97 mm] or .610" [15.49 mm] Profile
Press Fit**



PART NUMBER OPTIONS



	Standoffs	Row Spacing	Tail Length
JB =	No*	.200" [5.08mm]	.190" [4.83mm]
JC =	No*	.200" [5.08mm]	.625" [15.88mm]
JW =	Yes	.200" [5.08mm]	.190" [4.83mm]
JX =	Yes	.200" [5.08mm]	.565" [14.35mm]
JF =	No*	.100" [2.54mm]	.190" [4.83mm]
JG =	No*	.100" [2.54mm]	.625" [15.88mm]
JY =	Yes	.100" [2.54mm]	.190" [4.83mm]
JZ =	Yes	.100" [2.54mm]	.565" [14.35mm]

* Consult Factory For Availability

POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
05/10	0.400	10.16	0.600	15.24	0.756	19.20
06/12	0.500	12.70	0.700	17.78	0.856	21.74
07/14	0.600	15.24	0.800	20.32	0.956	24.28
08/16*	0.700	17.78	0.900	22.86	1.056	26.82
09/18*	0.800	20.32	1.000	25.40	1.156	29.36
10/20	0.900	22.86	1.100	27.94	1.256	31.90
11/22*	1.000	25.40	1.200	30.48	1.356	34.44
12/24	1.100	27.94	1.300	33.02	1.456	36.98
13/26	1.200	30.48	1.400	35.56	1.556	39.52
14/28*	1.300	33.02	1.500	38.10	1.656	42.06
15/30	1.400	35.56	1.600	40.64	1.756	44.60
16/32	1.500	38.10	1.700	43.18	1.856	47.14
17/34	1.600	40.64	1.800	45.72	1.956	49.68
18/36	1.700	43.18	1.900	48.26	2.056	52.22
19/38*	1.800	45.72	2.000	50.80	2.156	54.76
20/40	1.900	48.26	2.100	53.34	2.256	57.30
21/42*	2.000	50.80	2.200	55.88	2.356	59.84
22/44	2.100	53.34	2.300	58.42	2.456	62.38
23/46	2.200	55.88	2.400	60.96	2.556	64.92
24/48	2.300	58.42	2.500	63.50	2.656	67.46
25/50	2.400	60.96	2.600	66.04	2.756	70.00
26/52*	2.500	63.50	2.700	68.58	2.856	72.54
27/54*	2.600	66.04	2.800	71.12	2.956	75.08
28/56	2.700	68.58	2.900	73.66	3.056	77.62
29/58*	2.800	71.12	3.000	76.20	3.156	80.16
30/60	2.900	73.66	3.100	78.74	3.256	82.70
31/62	3.000	76.20	3.200	81.28	3.356	85.24
32/64*	3.100	78.74	3.300	83.82	3.456	87.78

POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
33/66*	3.200	81.28	3.400	86.36	3.556	90.32
34/68	3.300	83.82	3.500	88.90	3.656	92.86
35/70	3.400	86.36	3.600	91.44	3.756	95.40
36/72	3.500	88.90	3.700	93.98	3.856	97.94
37/74*	3.600	91.44	3.800	96.52	3.956	100.48
38/76*	3.700	93.98	3.900	99.06	4.056	103.02
39/78*	3.800	96.52	4.000	101.60	4.156	105.56
40/80	3.900	99.06	4.100	104.14	4.256	108.10
41/82*	4.000	101.60	4.200	106.68	4.356	110.64
42/84*	4.100	104.14	4.300	109.22	4.456	113.18
43/86	4.200	106.68	4.400	111.76	4.556	115.72
44/88*	4.300	109.22	4.500	114.30	4.656	118.26
45/90*	4.400	111.76	4.600	116.84	4.756	120.80
46/92*	4.500	114.30	4.700	119.38	4.856	123.34
47/94*	4.600	116.84	4.800	121.92	4.956	125.88
48/96*	4.700	119.38	4.900	124.46	5.056	128.42
49/98*	4.800	121.92	5.000	127.00	5.156	130.96
50/100	4.900	124.46	5.100	129.54	5.256	133.50
51/102*	5.000	127.00	5.200	132.08	5.356	136.04
52/104*	5.100	129.54	5.300	134.62	5.456	138.58
53/106*	5.200	132.08	5.400	137.16	5.556	141.12
54/108*	5.300	134.62	5.500	139.70	5.656	143.66
55/110*	5.400	137.16	5.600	142.24	5.756	146.20
56/112*	5.500	139.70	5.700	144.78	5.856	148.74
57/114*	5.600	142.24	5.800	147.32	5.956	151.28
58/116*	5.700	144.78	5.900	149.86	6.056	153.82
59/118*	5.800	147.32	6.000	152.40	6.156	156.36
60/120	5.900	149.86	6.100	154.94	6.256	158.90

* Consult Factory For Availability.



.100" [2.54 mm] Contact Centers, .560" [14.22 mm] Profile, .400" [10.16 mm] Wide Body, Double Point Contact, Dip Solder/Wire Wrap/Right Angle/Card Extender

PART NUMBER OPTIONS

MATERIALS (Insulator /Contact)

E = PBT/Phosphor Bronze
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface Termination
B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

E B C 10 D PD H - Sxxx

MODIFICATION CODE (Consult Factory)

OMIT FOR STANDARD

MOUNTING STYLE (Opposite Page)

H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting

TERMINATION TYPE (Opposite Page)

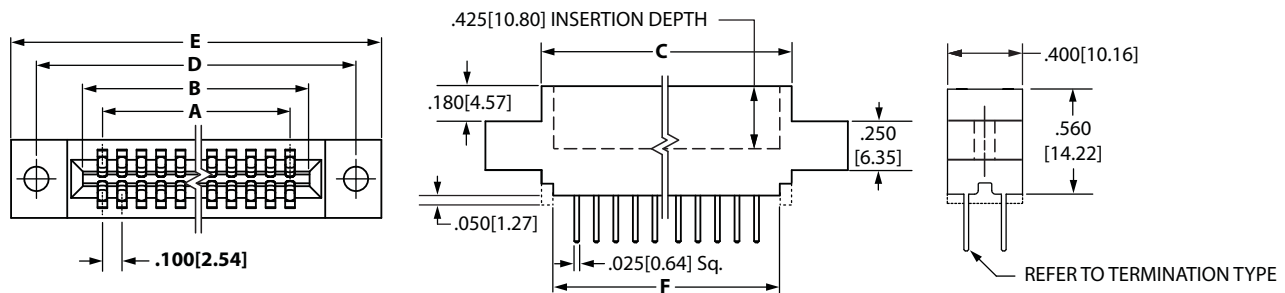
PD, PF, PS = .025" [.64] Square Dip Solder
PM = .025" [.64] Square Wire Wrap
PB, PG, PE, PJ, PU, PP = .025" [.64mm] Square Right Angle
PN, PR = .025" [.64mm] Square Card Extender

READOUT (Opposite Page)

D = Dual

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



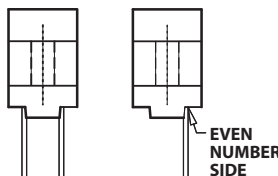
Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.500	0.700	0.860	1.175	1.435	0.740	12.70	17.78	21.84	29.85	36.45	18.80
07/14*	0.600	0.800	0.960	1.275	1.535	0.840	15.24	20.32	24.38	32.39	38.99	21.34
08/16	0.700	0.900	1.060	1.375	1.635	0.940	17.78	22.86	26.92	34.93	41.53	23.88
10/20	0.900	1.100	1.260	1.575	1.835	1.140	22.86	27.94	32.00	40.01	46.61	28.96
12/24*	1.100	1.300	1.460	1.775	2.035	1.340	27.94	33.02	37.08	45.09	51.69	34.04
13/26*	1.200	1.400	1.560	1.875	2.135	1.440	30.48	35.56	39.62	47.63	54.23	36.58
15/30	1.400	1.600	1.760	2.075	2.335	1.640	35.56	40.64	44.70	52.71	59.31	41.66
17/34*	1.600	1.800	1.960	2.275	2.535	1.840	40.64	45.72	49.78	57.79	64.39	46.74
18/36*	1.700	1.900	2.060	2.375	2.635	1.940	43.18	48.26	52.32	60.33	66.93	49.28
20/40	1.900	2.100	2.260	2.575	2.835	2.140	48.26	53.34	57.40	65.41	72.01	54.36
22/44*	2.100	2.300	2.460	2.775	3.035	2.340	53.34	58.42	62.48	70.49	77.09	59.44
24/48*	2.300	2.500	2.660	2.975	3.235	2.540	58.42	63.50	67.56	75.57	82.17	64.52
25/50*	2.400	2.600	2.760	3.075	3.335	2.640	60.96	66.04	70.10	78.11	84.71	67.06
28/56*	2.700	2.900	3.060	3.375	3.635	2.940	68.58	73.66	77.72	85.73	92.33	74.68
30/60	2.900	3.100	3.260	3.575	3.835	3.140	73.66	78.74	82.80	90.81	97.41	79.76
31/62*	3.000	3.200	3.360	3.675	3.935	3.240	76.20	81.28	85.34	93.35	99.95	82.30
35/70*	3.400	3.600	3.760	4.075	4.335	3.640	86.36	91.44	95.50	103.51	110.11	92.46
36/72*	3.500	3.700	3.860	4.175	4.435	3.740	88.90	93.98	98.04	106.05	112.65	95.00
40/80*	3.900	4.100	4.260	4.575	4.835	4.140	99.06	104.14	108.20	116.21	122.81	105.16
43/86	4.200	4.400	4.560	4.875	5.135	4.440	106.68	111.76	115.82	123.83	130.43	112.78
44/88*	4.300	4.500	4.660	4.975	5.235	4.540	109.22	114.30	118.36	126.37	132.97	115.32
49/98*	4.800	5.000	5.160	5.475	5.735	5.040	121.92	127.00	131.06	139.07	145.67	128.02
50/100	4.900	5.100	5.260	5.575	5.835	5.140	124.46	129.54	133.60	141.61	148.21	130.56
55/110*	5.400	5.600	5.760	6.075	6.335	5.640	137.16	142.24	146.30	154.31	160.91	143.26
60/120*	5.900	6.100	6.260	6.575	6.835	6.140	149.86	154.94	159.00	167.01	173.61	155.96
61/122*	6.000	6.200	6.360	6.675	6.935	6.240	152.40	157.48	161.54	169.55	176.15	158.50
65/130*	6.400	6.600	6.760	7.075	7.335	6.640	162.56	167.64	171.70	179.71	186.31	168.66
70/140	6.900	7.100	7.260	7.575	7.835	7.140	175.26	180.34	184.40	192.41	199.01	181.36

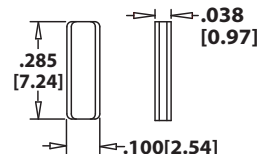
* Consult Factory For Availability.

**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height**
Dip Solder/Wire Wrap/Right Angle/Card Extender**SPECIFICATIONS**

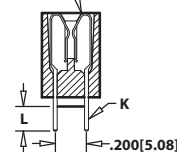
- Accommodates .062" \pm .008" [1.57 \pm .20] PC board (For .093" \pm .008" [2.36 \pm .20] PCB see page 50-51, 52-53; for .125" \pm .008" [3.18 \pm .20] PCB see page 50-51)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

**READOUT**

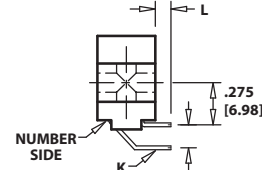
DUAL (D) HALF LOADED (H)

POLARIZING KEY**PLC-K1****KEY IN BETWEEN CONTACTS**
(ORDER SEPARATELY)**TERMINATION TYPE**

HAIRPIN BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CW	DIP SOLDER	.015 x .025 [.38 x .64]	.125 [3.18]	.035 [0.76]
CT	DIP SOLDER	.015 x .025 [.38 x .64]	.170 [4.32]	.035 [0.76]
CS	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]
CM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
CA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

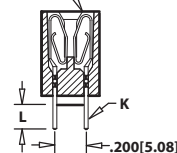
HAIRPIN BELLOWS

(CW, CT, CS, CM)

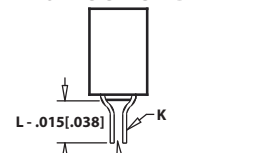
RIGHT ANGLE

(CA, CB, CC, TA, TB, TM, KA, KE, KU, KJ)

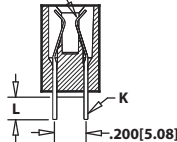
LOOP BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
TK,CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

LOOP BELLOWS

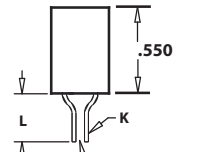
(TK, CK, RS, RM)

HAIRPIN or LOOP CARD EXTENDERACCOMMODATES
.062 [1.57] PCB(CW, CT, CS, CM, TK, CK, RS, RM)
Example P/N: EBC10DCSN-S288
(Requires -S288 Modification Code)

CANTILEVER	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
KS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
KD	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.043 [1.09]
KM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
*KA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
*KE	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
*KU	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
*KJ	RIGHT ANGLE	.025 [.64] SQUARE	.500 [12.70]	.043 [1.09]
*KR	CARD EXTENDER	.025 [.64] SQUARE	.235 [5.97]	N/A
*KN	CARD EXTENDER	.025 [.64] SQUARE	.605 [15.37]	N/A

CANTILEVER

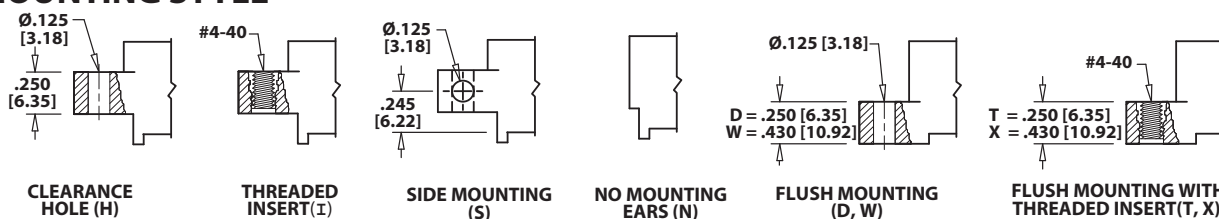
(KS, KD, KM)

CANTILEVER CARD EXTENDERACCOMMODATES
.062 [1.57] PCB

(KR, KN)

Example P/N: EBC10DKRN
(Omit Modification Code)

* KA, KE, KJ, KR, KN have no standoffs, unless requested.

MOUNTING STYLE



**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height
Dip Solder/Wire Wrap/Right Angle/Card Extender**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor Bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- (Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

READOUT (Opposite Page)

- D = Dual
- H = Half Loaded

E B C 70 D CM H - Sxxx

MODIFICATION CODE (Consult Factory)

OMIT FORT STANDARD

-S189 = .200" [5.08mm] Row to Row on Right Angle

-S288* = Card Extender Accepts .062" [1.57] PCB

* Not Required on KR or KN Terminations

MOUNTING STYLE (Opposite Page)

- H = Clearance Holes
- I = Threaded Inserts
- S = Side Mounting
- N = No Mounting
- D, W = Flush Mounting
- T, X = Flush Mounting With Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only

CS = .025" [.64mm] Square Dip Solder

CM = .025 [.64mm] Square Wire Wrap

CA, CB, CC = .025" [.64mm] Square Right Angle

CW, CT = .015" x .025" [.38 x .64] Dip Solder

Loop Bellows

RS = .025" [.64mm] Square Dip Solder

CK, TK = .026" [.66mm] Round Dip Solder

RM = .025" [.64mm] Square Wire Wrap

TA, TB, TM = .025" [.64mm] Square Right Angle

Cantilever Bellows - Available in Y, B, or C plating Only

Not Available with R or A Materials

KS, KD = .025" [.64mm] Square Dip Solder

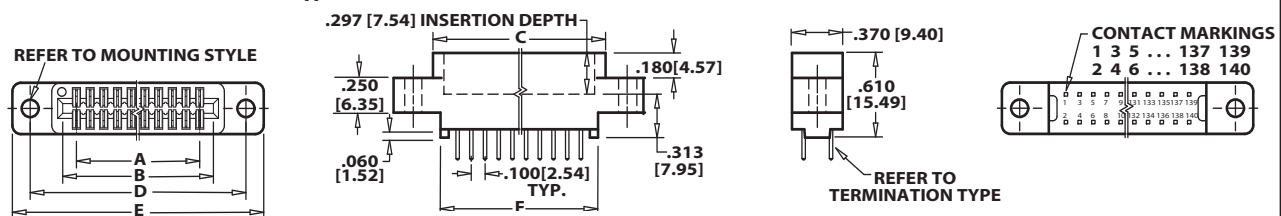
KM = .025 [.64mm] Square Wire Wrap

KA, KE, KU, KJ = .025" [.64mm] Square Right Angle

KR, KN = .025" [.64mm] Square Card Extender

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
07/14*	0.600	0.800	0.960	1.275	1.535	0.850	15.24	20.32	24.38	32.39	38.99	21.59
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
49/98*	4.800	5.000	5.160	5.475	5.735	5.050	121.92	127.00	131.06	139.07	145.67	128.27
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61
80/160*	7.900	8.100	8.260	8.575	8.835	8.150	200.66	205.74	209.80	217.81	224.41	207.01
90/180*	8.900	9.100	9.260	9.575	9.835	9.150	226.06	231.14	235.20	243.21	249.81	232.41
100/200*	9.900	10.100	10.260	10.575	10.835	10.150	251.46	256.54	260.60	268.61	275.21	257.81

* Consult factory for availability.



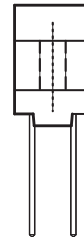
**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Profile, .400" [10.16 mm] Wide Body
Dip Solder/Wire Wrap/Right Angle/Card Extender for .062" or .093" Mating PCB**

SPECIFICATIONS

- Accommodates .062" \pm .008 [1.57 \pm .20] or .093" \pm .008" [2.36 \pm .20] PC board
- PPS, PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

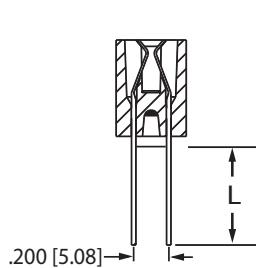


READOUT

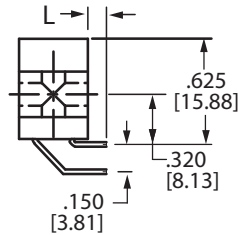


DUAL (D)

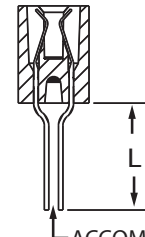
TERMINATION TYPE



DIP SOLDER/WIRE WRAP
(KS, KD, KM)



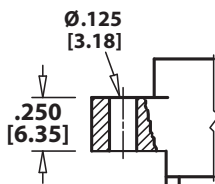
RIGHT ANGLE
(KA, KE, KU, KJ)



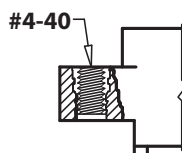
CARD EXTENDER
(KR, KN)

TERMINATION	TERMINATION TYPE	POST LENGTH L \pm .025 [.64]	FITS MIN. HOLE SIZE	STANDOFF
KD	DIP SOLDER	.160 [4.06]	.043 [1.09]	YES
KS	DIP SOLDER	.190 [4.83]	.040 [1.02]	YES
KM	WIRE WRAP	.560 [14.22]	.040 [1.02]	YES
KA	RIGHT ANGLE	.100 [2.54]	.043 [1.09]	NO
KE	RIGHT ANGLE	.180 [4.57]	.043 [1.09]	NO
KU	RIGHT ANGLE	.250 [6.35]	.043 [1.09]	NO
KJ	RIGHT ANGLE	.500 [12.70]	.043 [1.09]	NO
KR	CARD EXTENDER	.235 [5.97]	N/A	NO
KN	CARD EXTENDER	.605 [15.37]	N/A	NO

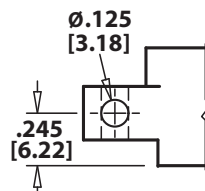
MOUNTING STYLE



CLEARANCE
HOLE (H)



THREADED
INSERT (I)



SIDE MOUNTING
(S)



NO MOUNTING
EARS (N)

**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Profile, .400" [10.16 mm] Wide Body
Dip Solder/Wire Wrap/Right Angle/Card Extender for .062" or .093" Mating PCB**

PART NUMBER OPTIONS

MATERIALS (Insulator /Contact)

E = PBT/Phosphor Bronze
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
Y = .000030" Gold .000005" Gold

CONTACT CENTERS

C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

A B C 30 D KE H - S1191

MODIFICATION CODE (Consult Factory)

-S1243 = For .062" ± .008 [1.57" ± .20] PCB

-S1191 = For .093" ± .008" [2.36 ± .20] PCB

MOUNTING STYLE (Opposite Page)

H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting

TERMINATION TYPE (Opposite Page)

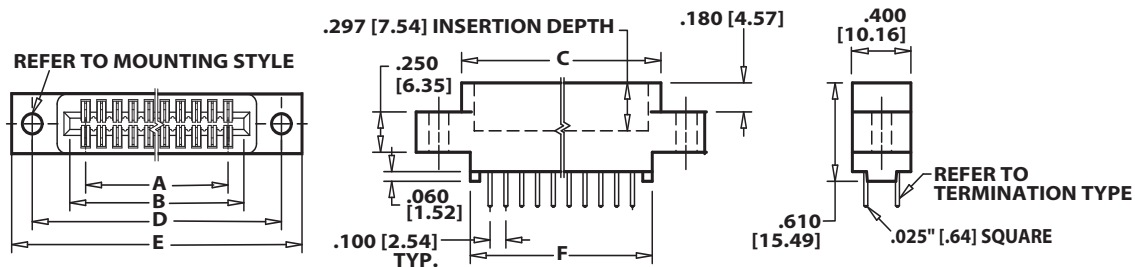
KD, KS = .025" [.64] Square Dip Solder
KM = .025" [.64] Square Wire Wrap
KA, KE, KU, KJ = .025" [.64mm] Square Right Angle
KN, KR = .025" [.64mm] Square Card Extender

READOUT (Opposite Page)

D = Dual

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.012	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.30	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.500	0.700	0.860	1.175	1.435	0.742	12.70	17.78	21.84	29.85	36.45	18.85
07/14*	0.600	0.800	0.960	1.275	1.535	0.842	15.24	20.32	24.38	32.39	38.99	21.39
08/16*	0.700	0.900	1.060	1.375	1.635	0.942	17.78	22.86	26.92	34.93	41.53	23.93
10/20*	0.900	1.100	1.260	1.575	1.835	1.142	22.86	27.94	32.00	40.01	46.61	29.01
12/24	1.100	1.300	1.460	1.775	2.035	1.342	27.94	33.02	37.08	45.09	51.69	34.09
13/26*	1.200	1.400	1.560	1.875	2.135	1.442	30.48	35.56	39.62	47.63	54.23	36.63
15/30	1.400	1.600	1.760	2.075	2.335	1.642	35.56	40.64	44.70	52.71	59.31	41.71
17/34*	1.600	1.800	1.960	2.275	2.535	1.842	40.64	45.72	49.78	57.79	64.39	46.79
18/36*	1.700	1.900	2.060	2.375	2.635	1.942	43.18	48.26	52.32	60.33	66.93	49.33
20/40	1.900	2.100	2.260	2.575	2.835	2.142	48.26	53.34	57.40	65.41	72.01	54.41
22/44	2.100	2.300	2.460	2.775	3.035	2.342	53.34	58.42	62.48	70.49	77.09	59.49
24/48*	2.300	2.500	2.660	2.975	3.235	2.542	58.42	63.50	67.56	75.57	82.17	64.57
25/50*	2.400	2.600	2.760	3.075	3.335	2.642	60.96	66.04	70.10	78.11	84.71	67.11
28/56*	2.700	2.900	3.060	3.375	3.635	2.942	68.58	73.66	77.72	85.73	92.33	74.73
30/60	2.900	3.100	3.260	3.575	3.835	3.142	73.66	78.74	82.80	90.81	97.41	79.81
31/62*	3.000	3.200	3.360	3.675	3.935	3.242	76.20	81.28	85.34	93.35	99.95	82.35
35/70*	3.400	3.600	3.760	4.075	4.335	3.642	86.36	91.44	95.50	103.51	110.11	92.51
36/72*	3.500	3.700	3.860	4.175	4.435	3.742	88.90	93.98	98.04	106.05	112.65	95.05
40/80*	3.900	4.100	4.260	4.575	4.835	4.142	99.06	104.14	108.20	116.21	122.81	105.21
43/86	4.200	4.400	4.560	4.875	5.135	4.442	106.68	111.76	115.82	123.83	130.43	112.83
44/88*	4.300	4.500	4.660	4.975	5.235	4.542	109.22	114.30	118.36	126.37	132.97	115.37
49/98*	4.800	5.000	5.160	5.475	5.735	5.042	121.92	127.00	131.06	139.07	145.67	128.07
50/100	4.900	5.100	5.260	5.575	5.835	5.142	124.46	129.54	133.60	141.61	148.21	130.61
55/110	5.400	5.600	5.760	6.075	6.335	5.642	137.16	142.24	146.30	154.31	160.91	143.31
60/120*	5.900	6.100	6.260	6.575	6.835	6.142	149.86	154.94	159.00	167.01	173.61	156.01
61/122*	6.000	6.200	6.360	6.675	6.935	6.242	152.40	157.48	161.54	169.55	176.15	158.55
65/130*	6.400	6.600	6.760	7.075	7.335	6.642	162.56	167.64	171.70	179.71	186.31	168.71
70/140	6.900	7.100	7.260	7.575	7.835	7.142	175.26	180.34	184.40	192.41	199.01	181.41

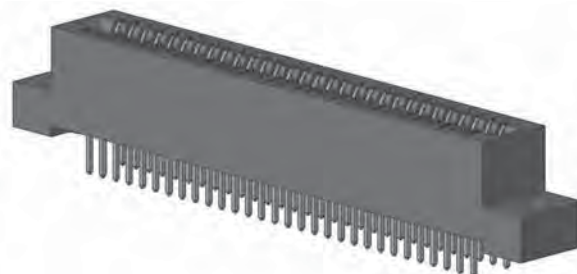
* Consult Factory For Availability.



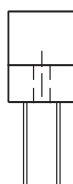
**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Profile, .470" [11.94 mm] Wide Body
Dip Solder/Wire Wrap/Right Angle/Card Extender for .093" or .125" Mating PCB**

SPECIFICATIONS

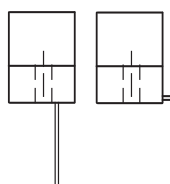
- Accommodates .093" \pm .008" [2.36 \pm .20] or .125" \pm .008" [3.18 \pm .20] mating PC board (Consult factory for .031" \pm .008" [.79 \pm .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



READOUT

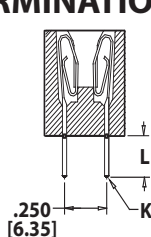


DUAL (D)

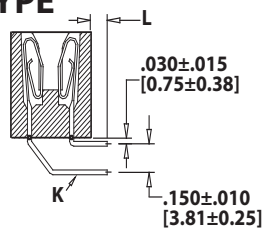


HALF LOADED (H)

TERMINATION TYPE



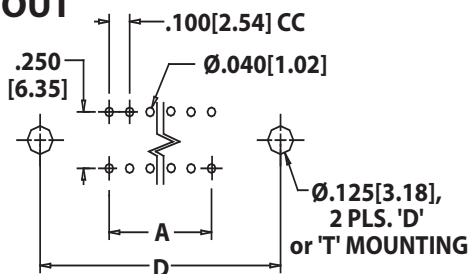
LOOP
BELLOWS
(RS, RM)



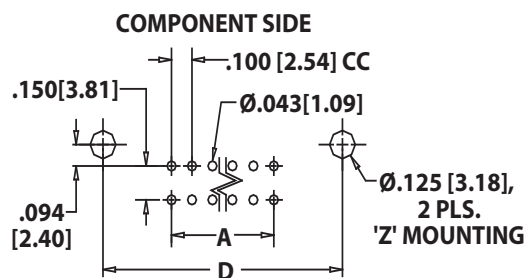
RIGHT ANGLE
DIP SOLDER
(TA, TB, TM)

TERMINATION TYPE		POST CROSS SECTION (K)	POST LENGTH L \pm .025[.64]	FITS MIN. HOLE SIZE
RS	Dip Solder	.025[.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	Wire Wrap	.025[.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	Right Angle	.025[.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	Right Angle	.025[.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	Right Angle	.025[.64] SQUARE	.250 [6.35]	.043 [1.09]

PCB LAYOUT



STRAIGHT PIN
(RS, RM) TERMINATIONS

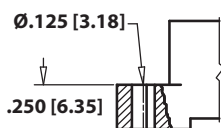


RIGHT ANGLE
(TA, TB, TM) TERMINATIONS

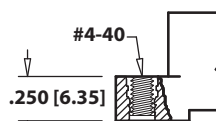
MOUNTING STYLE



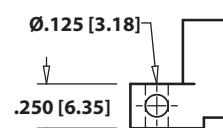
NO MOUNTING
EARS (N)



FLUSH MOUNTING
(D)



FLUSH MOUNTING WITH
THREADED INSERT
(T)



FLUSH MOUNTING
WITH SIDE HOLES
(Z)



**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Profile, .470" [11.94 mm] Wide Body
Dip Solder/Wire Wrap/Right Angle/Card Extender for .093" or .125" Mating PCB**

PART NUMBER OPTIONS

MATERIALS (Insulator /Contact)

E = PBT/Phosphor Bronze
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
H = PBT/Beryllium Copper
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

B = .000010" Gold
C = .000030" Gold
G = .000010" Gold
Y = .000030" Gold

Termination

.000100" Pure Tin, Matte
.000100" Pure Tin, Matte
.000005" Gold
.000005" Gold

Contact Surface

S = .000010" Gold
M = .000030" Gold
E = .000100" Pure Tin, Matte

Overall Plating

.000010" Gold
.000010" Gold
.000100" Pure Tin, Matte

E B C 70 D RM D - S273

MODIFICATION CODE (Consult Factory)

-S273 = FOR .093" ± .008" [2.36 ± .20]
THICK MATING PCB
-S664 = FOR .125" ± .008" [3.18 ± .20]
THICK MATING PCB

MOUNTING STYLE (Opposite Page)

N = No Mounting
D = Flush Mounting
T = Flush Mounting With Threaded Inserts
Z = Flush Mounting With Side Holes

TERMINATION TYPE (Opposite Page)

RS = .025" [0.64mm] Square Dip Solder
RM = .025" [0.64mm] Square Wire Wrap
TA, TB, TM = .025" [0.64mm] Square Right Angle

READOUT (Opposite Page)

D = Dual
H = Half Loaded

NUMBER OF CONTACT POSITIONS

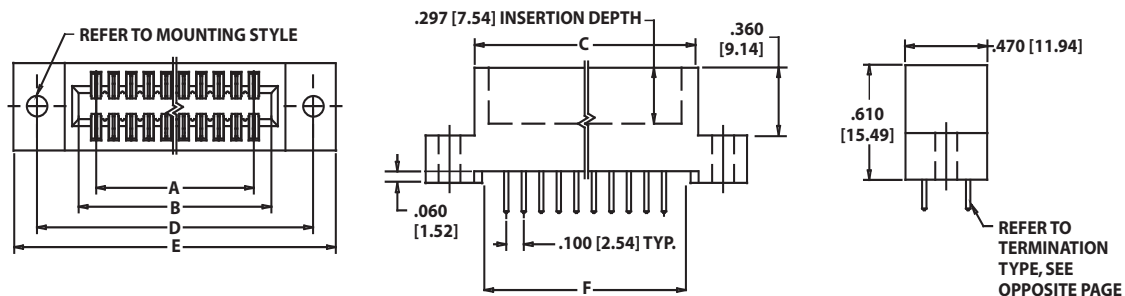
See Chart Below

CONTACT CENTERS

C = .100" [2.54mm]

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
07/14*	0.600	0.800	0.960	1.275	1.535	0.850	15.24	20.32	24.38	32.39	38.99	21.59
08/16*	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
15/30*	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34*	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40*	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48*	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50*	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62*	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80*	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86*	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88*	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
49/98*	4.800	5.000	5.160	5.475	5.735	5.050	121.92	127.00	131.06	139.07	145.67	128.27
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120*	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130*	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61

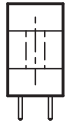
* Consult Factory For Availability.



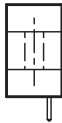
**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
[ISA] Dip Solder/Wire Wrap/Right Angle**



READOUT



DUAL (D)



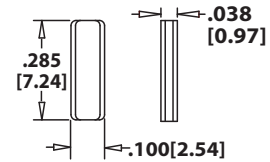
HALF LOADED (H)

SPECIFICATIONS

- Accommodates $.062" \pm .008"$
[1.57 \pm .20] PC board
- PBT or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

POLARIZING KEY

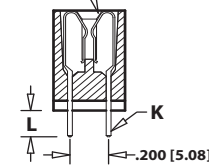
PLC-K1



**KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)**

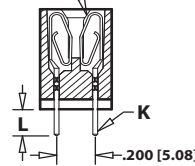
TERMINATION TYPE

HAIRPIN BELLOWS

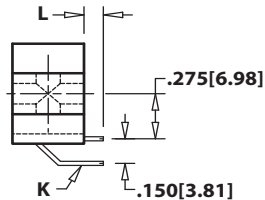


HAIRPIN BELLOWS
(CS,CM,CW,CT)

LOOP BELLOWS



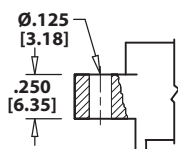
LOOP BELLOWS
(TK,RS,RM)



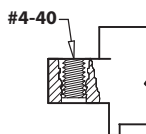
RIGHT ANGLE, DIP SOLDER
(CA,CB,CC,TA,TB,TM)
-S605 MODIFICATION

HAIRPIN BELLOWS	LOOP	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CM	TK, CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
	RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
	RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
	TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
CW		DIP SOLDER	.015 X .025 [.38 X .64]	.125 [3.18]	.035 [0.76]
CT		DIP SOLDER	.015 X .025 [.38 X .64]	.170 [4.32]	.035 [0.76]
CS		DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]

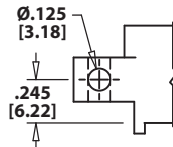
MOUNTING STYLE



CLEARANCE HOLE (H)



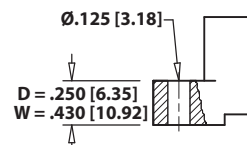
THREADED INSERT (I)



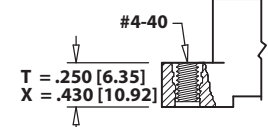
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



FLUSH MOUNTING WITH THREADED INSERT (T, X)

**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
[ISA] Dip Solder/Wire Wrap/Right Angle**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- G = PA9T/Phosphor Bronze
- H = PBT/Beryllium Copper
- J = PA9T/Beryllium Copper
- (Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS

18, 31 or 49 (31/18)

READOUT (Opposite page)

- D = Dual
- H = Half Loaded

E B C 49 D CW N - S420

MODIFICATION CODE (Consult Factory)

ISA WITH RETENTION FEATURE

- S524 = 18 Positions
- S524 = 31 Positions
- S518 = 49 Positions (31/18)

ISA WITHOUT RETENTION FEATURE

- S371 = 18 Positions
- S371 = 31 Positions
- S420 = 49 Positions (31/18) Dip Solder or Wire Wrap
- S605 = 49 Positions (31/18) Right Angle

MOUNTING STYLE (Opposite Page)

- H = Clearance Holes
- I = Threaded Inserts
- S = Side Mounting
- N = No Mounting
- D,W = Flush Mounting
- T,X = Flush Mounting With Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows *

- CS = .025" [0.64mm] Square Dip Solder
- CM = .025" [0.64mm] Square Wire Wrap
- CA, CB, CC = .025" [0.64mm] Square Right Angle
- CW, CT = .015" [0.38mm] x .025" [0.64mm] Dip Solder

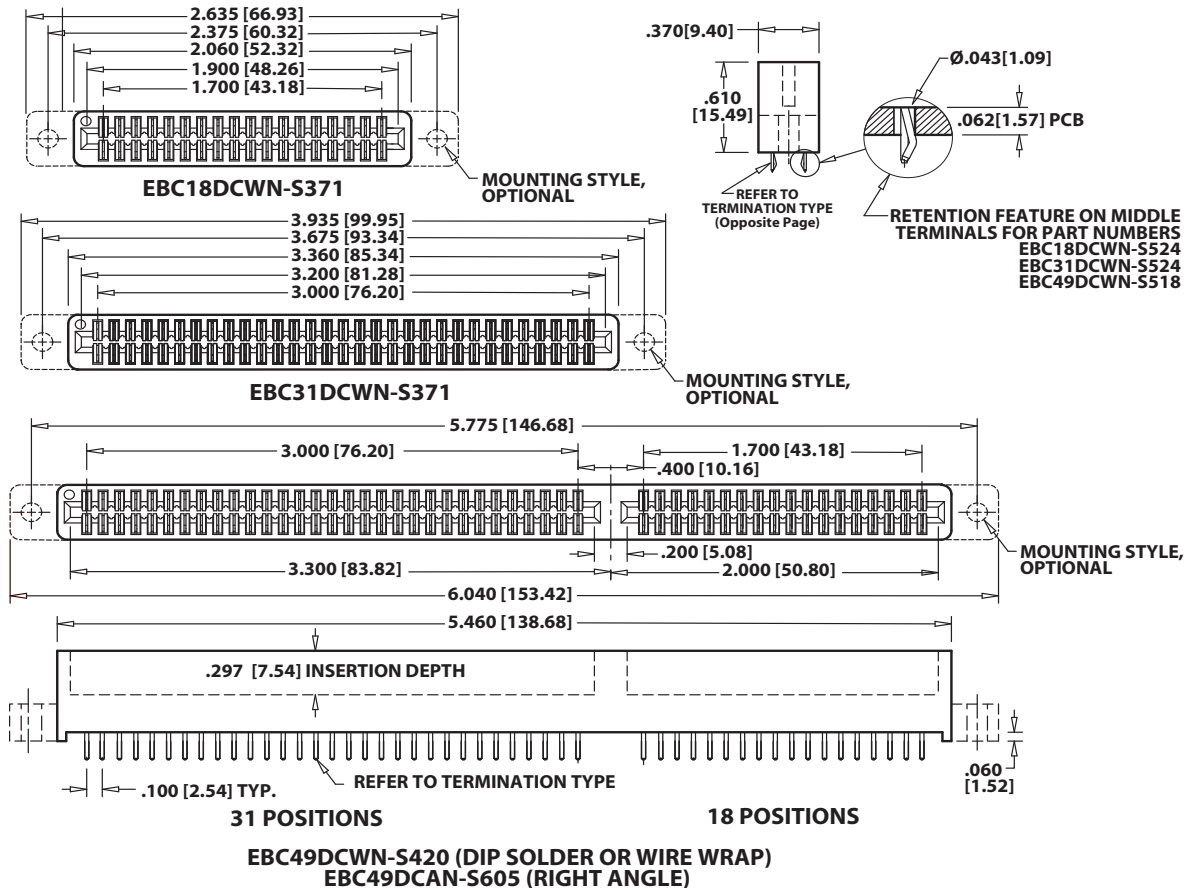
Loop Bellows

- RS = .025" [0.64mm] Square Dip Solder
- TK = .026" [0.66mm] Round Dip Solder
- RM = .025" [0.64mm] Square Wire Wrap
- TA, TB, TM = .025" [0.64mm] Square Right Angle

* Available in B or C Plating and Phosphor Bronze only
Consult Factory for Cantilever Terminations

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

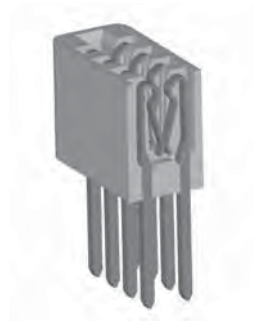




.100" [2.54 mm] Contact Centers, .690" [17.52 mm] Insulator Height
Make Before Break Dip Solder/Card Extender/Right Angle

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 \pm .20] PC board
- PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

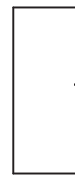


READOUT



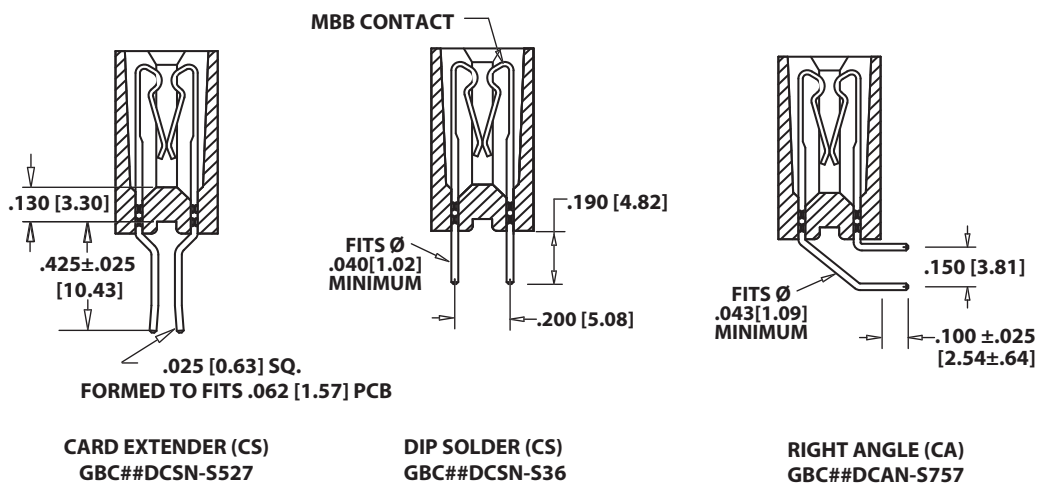
DUAL (D)

MOUNTING STYLE



NO MOUNTING EARS (N)

TERMINATION TYPE





.100" [2.54 mm] Contact Centers, .690" [17.52 mm] Insulator Height
Make Before Break Dip Solder/Card Extender/Right Angle

PART NUMBER OPTIONS

G B C 10 D CS N - S36

MATERIALS (INSULATOR/CONTACT)
G = PA9T/Phosphor Bronze
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination
B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte

CONTACT CENTERS
C = .100" [2.54mm]

NUMBER OF CONTACT POSITIONS
See Chart Below

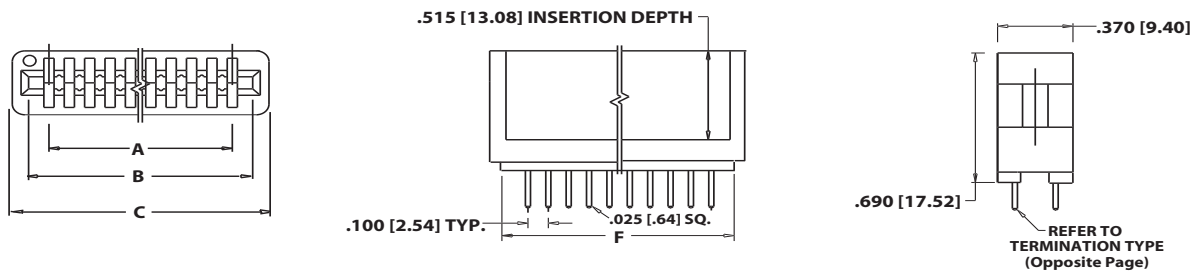
MODIFICATION CODE (Consult Factory)
-S757 = MBB, .150" [3.81mm] Row to Row on Right Angle
-S527 = MBB, Card Extender Accepts .062" [1.57] PCB
-S36 = MBB, Straight Dip-Solder

MOUNTING STYLE
N = No Mounting

TERMINATION TYPE (Opposite Page)
Hairpin Bellows
CS = Dip Solder .025" [.64] Square
CA = Right Angle, .100" [2.54]

READOUT (Opposite Page)
D = Dual

DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES				[MILLIMETERS]			
	A±.008	B±.008	C±.015	F±.015	A±0.20	B±0.20	C±0.38	F±0.38
02/04*	0.100	0.300	0.460	0.350	2.54	7.62	11.68	8.89
04/08*	0.300	0.500	0.660	0.550	7.62	12.70	16.76	13.97
06/12*	0.500	0.700	0.860	0.750	12.70	17.78	21.84	19.05
08/16*	0.700	0.900	1.060	0.950	17.78	22.86	26.92	24.13
10/20*	0.900	1.100	1.260	1.150	22.86	27.94	32.00	29.21
12/24	1.100	1.300	1.460	1.350	27.94	33.02	37.08	34.29
14/28	1.300	1.500	1.660	1.550	33.02	38.10	42.16	39.37
16/32*	1.500	1.700	1.860	1.750	38.10	43.18	47.24	44.45
18/36*	1.700	1.900	2.060	1.950	43.18	48.26	52.32	49.53
20/40*	1.900	2.100	2.260	2.150	48.26	53.34	57.40	54.61
22/44*	2.100	2.300	2.460	2.350	53.34	58.42	62.48	59.69
24/48*	2.300	2.500	2.660	2.550	58.42	63.50	67.56	64.77
26/52*	2.500	2.700	2.860	2.750	63.50	68.58	72.64	69.85
28/56*	2.700	2.900	3.060	2.950	68.58	73.66	77.72	74.93
30/60*	2.900	3.100	3.260	3.150	73.66	78.74	82.80	80.01
32/64*	3.100	3.300	3.460	3.350	78.74	83.82	87.88	85.09
34/68*	3.300	3.500	3.660	3.550	83.82	88.90	92.96	90.17
36/72*	3.500	3.700	3.860	3.750	88.90	93.98	98.04	95.25
38/76*	3.700	3.900	4.060	3.950	93.98	99.06	103.12	100.33
40/80*	3.900	4.100	4.260	4.150	99.06	104.14	108.20	105.41
42/84*	4.100	4.300	4.460	4.350	104.14	109.22	113.28	110.49
44/88*	4.300	4.500	4.660	4.550	109.22	114.30	118.36	115.57
46/92*	4.500	4.700	4.860	4.750	114.30	119.38	123.44	120.65
48/96*	4.700	4.900	5.060	4.950	119.38	124.46	128.52	125.73
50/100	4.900	5.100	5.260	5.150	124.46	129.54	133.60	130.81

* Consult Factory For Availability.



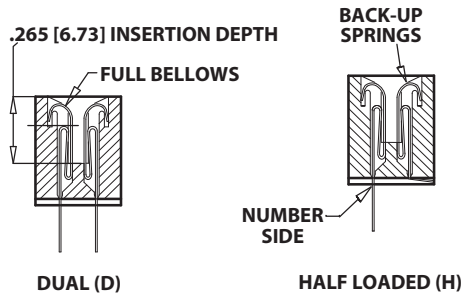
.125" [3.18 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB

SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
(Consult factory for .031" \pm .008" [.79 \pm .20],
.093" \pm .008" [2.36 \pm .20] and .125" \pm .008"
[3.18 \pm .20] boards)
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

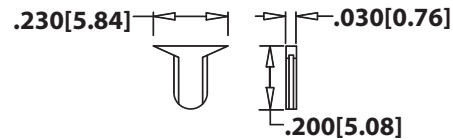


READOUT



POLARIZING KEY

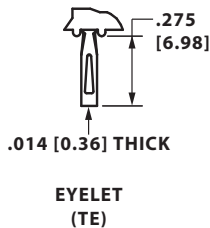
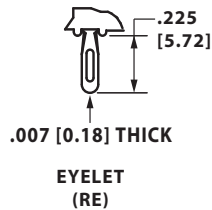
PLA-K1
KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)



CONSULT FACTORY FOR MOLDED-IN KEY

TERMINATION TYPE

EYELET ACCEPTS
3-#26 AWG



.200 [5.08] (RT)
.440 [11.15] (RY)

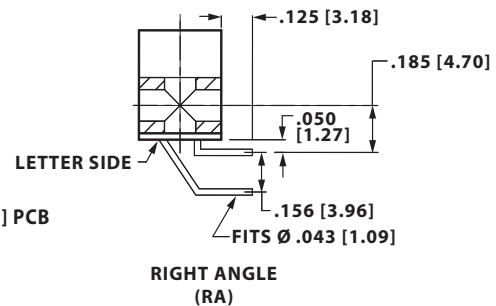
NARROW DIP SOLDER
(RT, RY)

.210 [5.33] (RE)
.185 [4.70] (RT)
.425 [10.80] (RY)

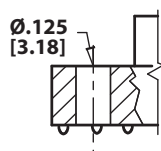
ACCEPTS .062 [1.57] PCB
CARD EXTENDER
REQUIRES -S13 MODIFICATION CODE
(RE, RT, RY TERMINATIONS ONLY)

.165 [4.19] (RJ)
.185 [4.70] (RX)

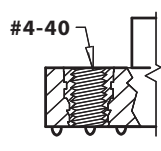
WIDE DIP SOLDER
(RJ, RX)



MOUNTING STYLE



CLEARANCE HOLE (H)

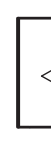


THREADED INSERT (I)

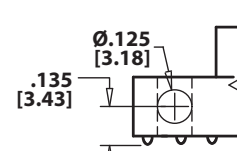
Ø.116 [2.95] CLEARANCE FOR #4 SCREW



FLOATING BOBBIN (F)



NO MOUNTING EARS (N)



SIDE MOUNTING (S)

.125" [3.18 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB



PART NUMBER OPTIONS

E B A 43 D R E H - Sxxx

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- *F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines
- *C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
- *Consult Factory for availability.

CONTACT FINISH - RoHS Compliant
All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold

	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

- S13 = Card Extender Accepts .062" [1.57] PCB (RE, RT, RY Terminations Only)
- S734 = .031" ± .008" [7.9 ± .20] Thick PCB

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

- RA = Right Angle
- RE = Eyelet (Standard)
- TE = Eyelet (Overall Plated Only)
- RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder
- RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder
- RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder
- RJ = .250" [6.35mm] x .165" [4.19mm] Dip Solder

READOUT (Opposite Page)

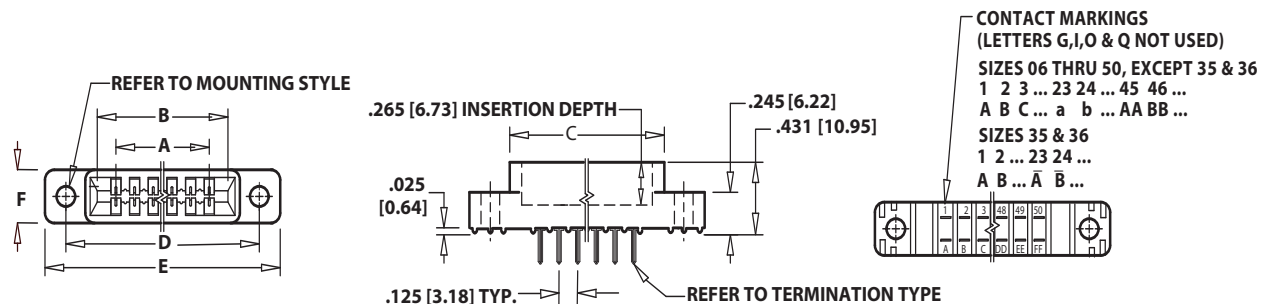
- D = Dual
- H = Half Loaded

NUMBER OF CONTACT POSITIONS
See Chart Below

CONTACT CENTERS
A = .125" [3.18mm]

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

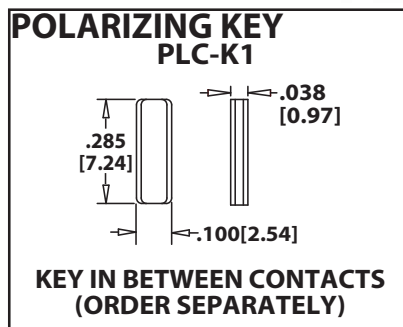
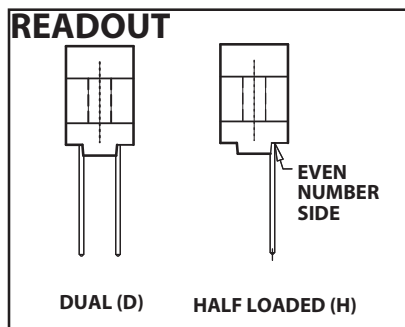
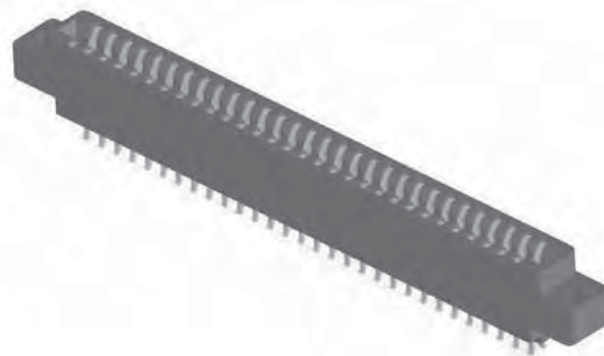
Positions/ Contacts	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±.020	B±.020	C±.038	D±.025	E±.051	F±.013
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325	0.370	111.13	117.48	121.54	128.14	135.26	9.40
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825		123.83	130.18	134.24	140.84	147.96	
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height Dip Solder/Wire Wrap/Right Angle

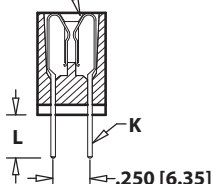
SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
(Consult factory for .031" \pm .008" [.79 \pm .20],
See page 62-63 for .093" \pm .008" [2.36 \pm .20]
and .125" \pm .008" [3.18 \pm .20] PC boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- Consult Factory for (MBB) Contacts
- UL Flammability Rating: 94V-0



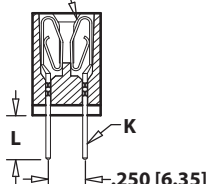
TERMINATION TYPE

HAIRPIN BELLOWS

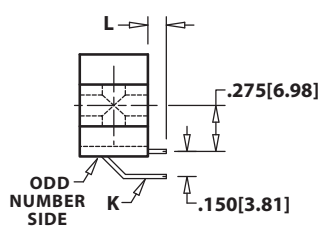


HAIRPIN BELLOWS
(CK,CS,CM,CW,CT)

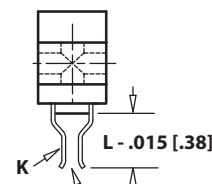
LOOP BELLOWS



LOOP BELLOWS
(TK,RS,RM,CK)



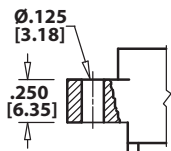
RIGHT ANGLE, DIP SOLDER
(CA,CB,CC,TA,TB,TM)



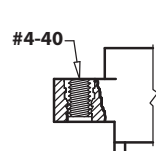
CARD EXTENDER
REQUIRES -S288 MODIFICATION CODE
(CS,CM,CT,RS,CK,TK,RM)

HAIRPIN BELLOWS	LOOP BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L \pm .025 [.64]	FITS MIN. HOLE SIZE
CM	TK, CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
	RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
	RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
	TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
	TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CB	TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
CC		DIP SOLDER	.015 x .025 [.38 x .64]	.125 [3.18]	.035 [0.76]
CW		DIP SOLDER	.015 x .025 [.38 x .64]	.170 [4.32]	.035 [0.76]
CT		DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]
CS		DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]

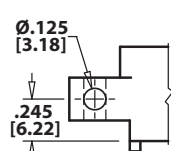
MOUNTING STYLE



CLEARANCE HOLE (H)



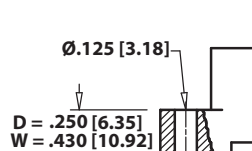
THREADED INSERT (I)



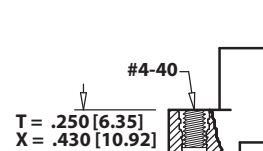
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



FLUSH MOUNTING WITH
THREADED INSERT (T, X)

**.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height
Dip Solder/Wire Wrap/Right Angle**



PART NUMBER OPTIONS

MATERIALS (Insulator/Contact) ————— **E B A 50 D CM H - Sxxx**

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

A = .125" [3.18mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

READOUT (Opposite Page)

D = Dual
H = Half Loaded

MODIFICATION CODE (Consult Factory)

OMIT FOR STANDARD
-S288 = Card Extender Accepts .062" [1.57] PCB

MOUNTING STYLE (Opposite Page)

H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting
W = Flush Mounting
D = Flush Mounting
X = Flush Mounting with Threaded Inserts
T = Flush Mounting with Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows **

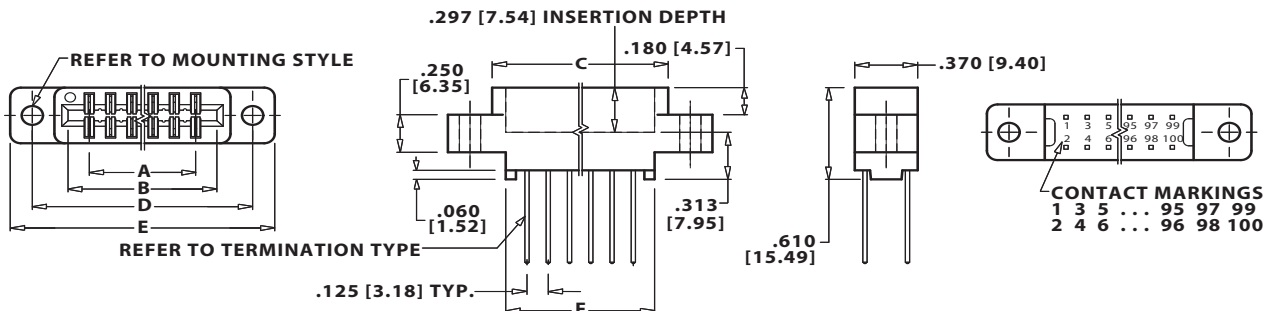
CS = .025" [6.4mm] Square Dip Solder
CM = .025 [6.4mm] Square Wire Wrap
CA, CB, CC = .025" [6.4mm] Square Right Angle
CW, CT = .015" x .025" [.38 x .64] Dip Solder

Loop Bellows

RS = .025" [6.4mm] Square Dip Solder
CK, TK = .026" [6.6mm] Round Dip Solder
RM = .025" [6.4mm] Square Wire Wrap
TA, TB, TM = .025" [6.4mm] Square Right Angle
****Available with B or C plating and Phosphor Bronze Only**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential: Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
25/50*	3.000	3.250	3.410	3.670	3.930	3.250	76.20	82.55	86.61	93.22	99.82	82.55
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93

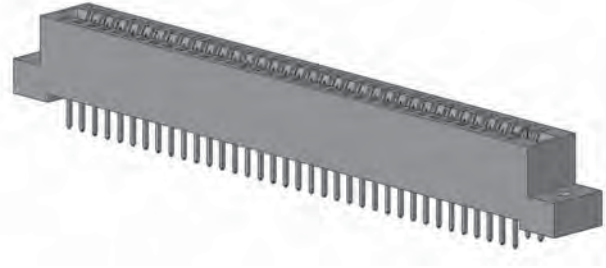
* Consult factory for availability.



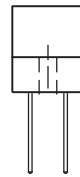
**.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

SPECIFICATIONS

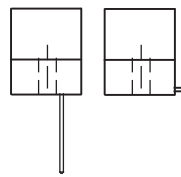
- Accommodates .093" \pm .008" [2.36 \pm .20] or .125" \pm .008" [3.18 \pm .20] mating PCB
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



READOUT

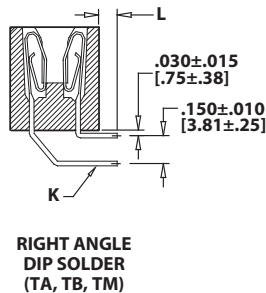
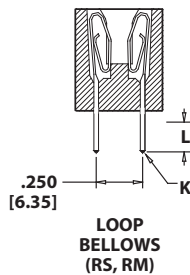


DUAL (D)



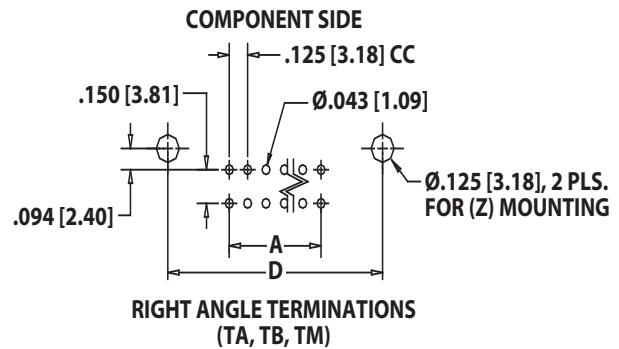
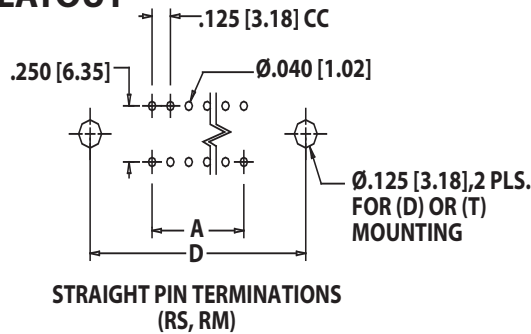
HALF LOADED (H)

TERMINATION TYPE



TERMINATION TYPE	POST CROSS SECTION (K)	POST LENGTH L±.025[0.64]	FITS MIN. HOLE SIZE
RS DIP SOLDER	.025[0.64] SQUARE	.190 [4.83]	.040 [1.02]
RM WIRE WRAP	.025[0.64] SQUARE	.560 [14.20]	.040 [1.02]
TA RIGHT ANGLE	.025[0.64] SQUARE	.100 [2.54]	.043 [1.09]
TB RIGHT ANGLE	.025[0.64] SQUARE	.180 [4.57]	.043 [1.09]
TM RIGHT ANGLE	.025[0.64] SQUARE	.250 [6.35]	.043 [1.09]

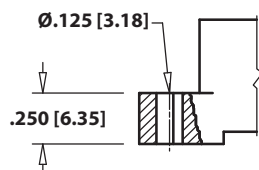
PCB LAYOUT



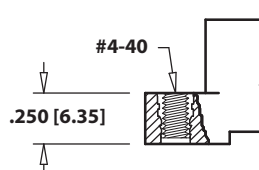
MOUNTING STYLE



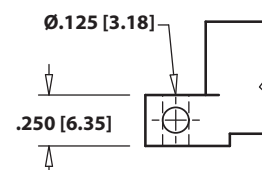
NO MOUNTING EARS (N)



FLUSH MOUNTING (D)



**FLUSH MOUNTING WITH
THREADED INSERT (T)**



FLUSH MOUNTING WITH SIDE HOLES (Z)



**.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

PART NUMBER OPTIONS

E B A 50 D RM D - S273

MATERIALS (Insulator/Contact)
 E = PBT/Phosphor Bronze(Standard)
 R = PPS/Phosphor Bronze
 G = PA9T/Phosphor Bronze
 (Consult Factory for Other Materials)

CONTACT FINISH - RoHS Compliant
 All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
G = .000010" Gold	.000005" Gold
Y = .000030" Gold	.000005" Gold
Contact Surface	Overall Plating
S = .000010" Gold	.000010" Gold
M = .000030" Gold	.000010" Gold
E = .000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS
 A = .125" [3.18mm]

MODIFICATION CODE (Consult Factory)
 -S273 = FOR .093" ± .008" [2.36 ± .20]
 THICK MATING PCB
 -S664 = FOR .125" ± .008" [3.18 ± .20]
 THICK MATING PCB

MOUNTING STYLE (Opposite Page)
 N = No Mounting
 D = Flush Mounting
 T = Flush Mounting With Threaded Inserts
 Z = Flush Mounting With Side Holes

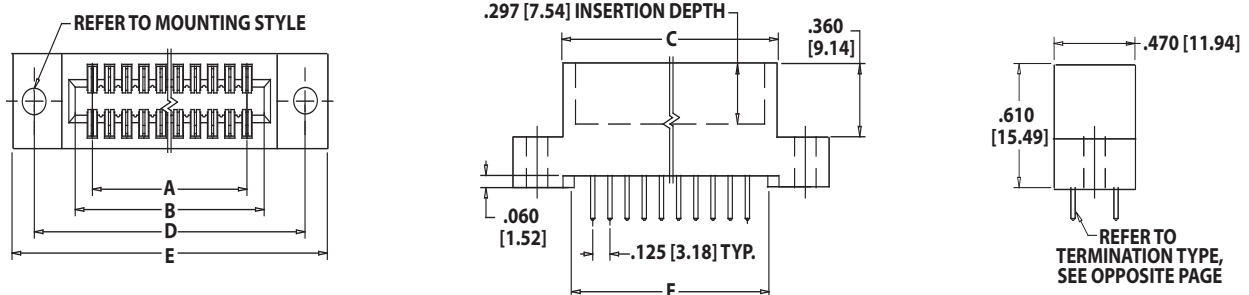
TERMINATION TYPE (Opposite Page)
 RS = .025" [0.64mm] Square Dip Solder
 RM = .025" [0.64mm] Square Wire Wrap
 TA, TB, TM = .025" [0.64mm] Square Right Angle

READOUT (OPPOSITE PAGE)
 D = Dual
 H = Half Loaded

NUMBER OF CONTACT POSITIONS
 See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20*	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28*	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30*	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36*	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44*	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48*	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
25/50*	3.000	3.250	3.410	3.670	3.930	3.250	76.20	82.55	86.61	93.22	99.82	82.55
28/56*	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62*	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64*	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70*	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80*	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86*	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88*	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98*	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93

* Consult Factory For Availability.



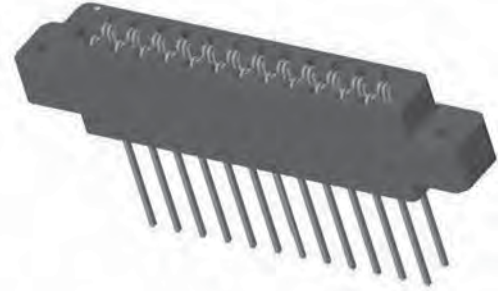
Sullins Card Edge

MICROPLASTICS
SULLINS

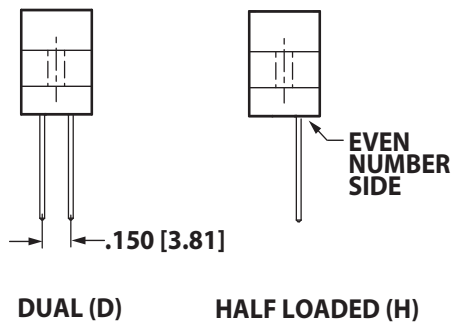
.150" [3.81 mm] Contact Centers, .550" [13.97 mm] Insulator Height
Dip Solder/Wire Wrap

SPECIFICATIONS

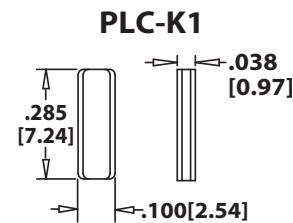
- Accommodates $.062" \pm .008" [1.57 \pm .20]$ PC board
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm max. at rated current
- UL Flammability Rating: 94V-0



READOUT

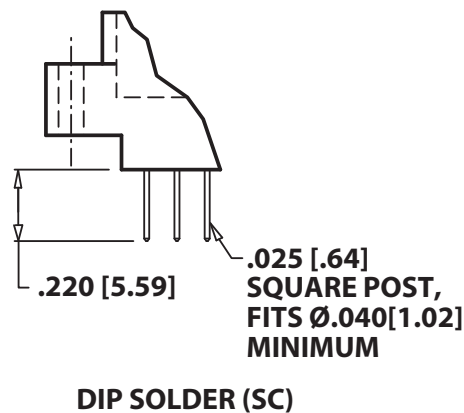
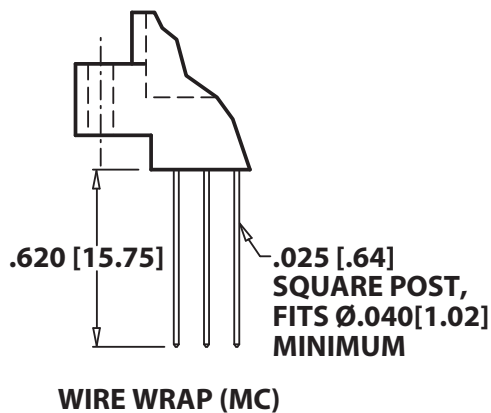


POLARIZING KEY

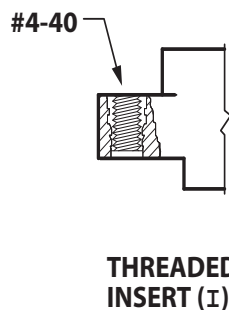
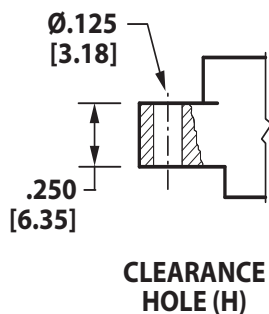


KEY IN BETWEEN CONTACTS
(ORDER SEPARATELY)

TERMINATION TYPE



MOUNTING STYLE



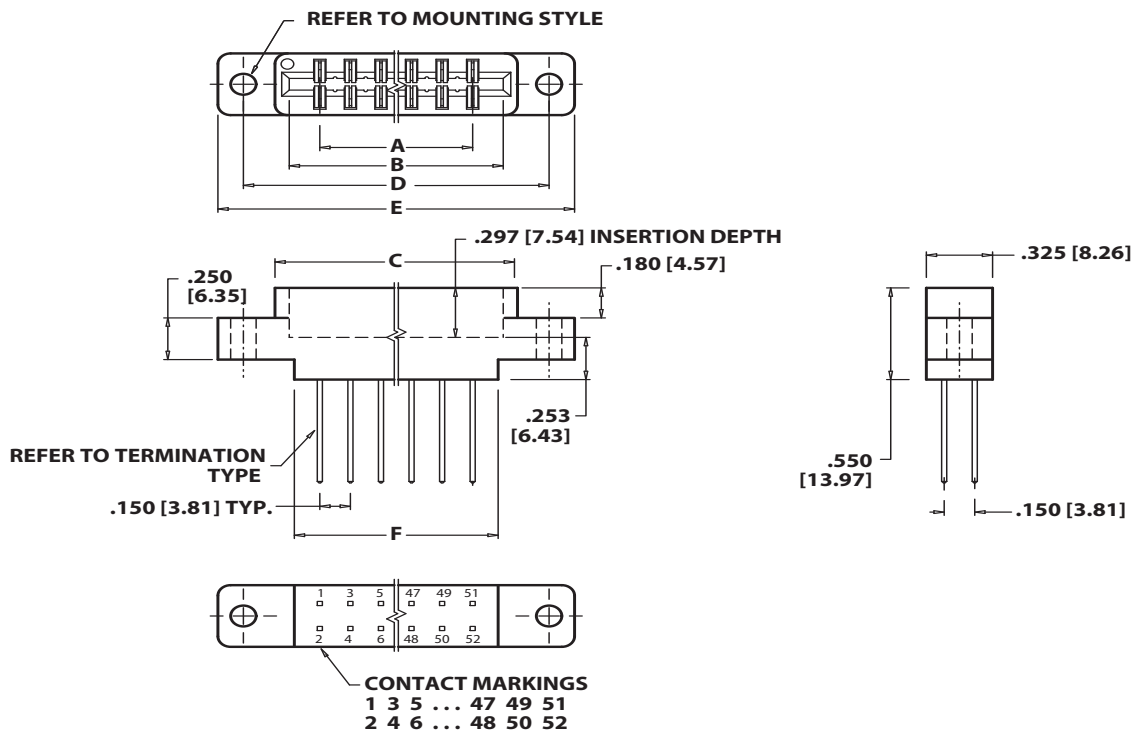


PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)	E B J 26 D MC H - Sxxx	MODIFICATION CODE (Consult Factory) OMIT FOR STANDARD
E = PBT/Phosphor Bronze (Standard)		
R = PPS/Phosphor Bronze		
G = PA9T/Phosphor Bronze (Consult Factory for Other Materials)		
CONTACT FINISH - RoHS Compliant		MOUNTING STYLE (Opposite Page)
All platings are Lead Free and have .000050" Nickel underplate		H = Clearance Holes
Contact Surface Termination		I = Threaded Inserts
B = .000010" Gold		N = No Mounting
C = .000030" Gold		
		TERMINATION TYPE (Opposite Page)
		Hairpin Bellows
		MC = .025" [.64mm] Square Wire Wrap
		SC = .025" [.64mm] Square Dip Solder
CONTACT CENTERS		READOUT (Opposite Page)
J = .150" [3.81mm]		D = Dual
NUMBER OF CONTACT POSITIONS		H = Half Loaded
See Chart Below		

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
12/24	1.650	1.950	2.090	2.400	2.650	2.000	41.91	49.53	53.09	60.96	67.31	50.80
18/36*	2.550	2.850	2.990	3.300	3.550	2.800	64.77	72.39	75.95	83.82	90.17	71.12
22/44*	3.150	3.450	3.590	3.900	4.150	3.400	80.01	87.63	91.19	99.06	105.41	86.36
26/52	3.750	4.050	4.190	4.500	4.750	4.000	95.25	102.87	106.43	114.30	120.65	101.60
28/56*	4.050	4.350	4.490	4.800	5.050	4.300	102.87	110.49	114.05	121.92	128.27	109.22

* Consult Factory For Availability.



Sullins Card Edge

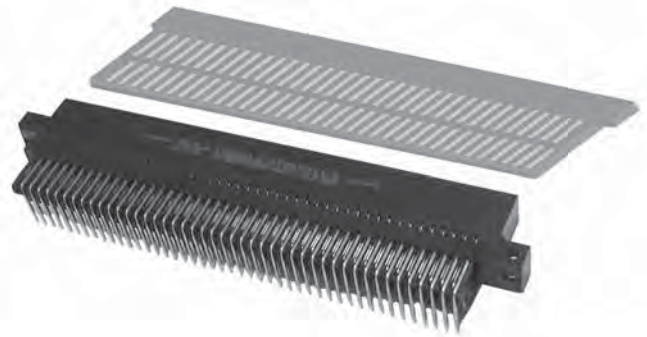
MICROPLASTICS
SULLINS

Bi-Level, .078" [1.98 mm] / .156" [3.96 mm] Contact Centers
High Density, Right Angle

U.S. Patent No. US 6,790,054 B1

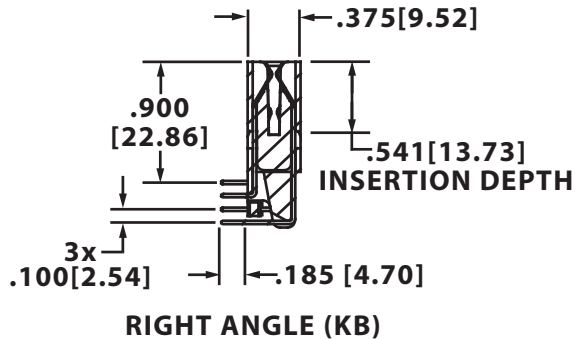
SPECIFICATIONS

- .078" Contact Center Spacing can replace .156" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates $.062" \pm .008"$ [1.57 \pm .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings



Sullins Card Edge

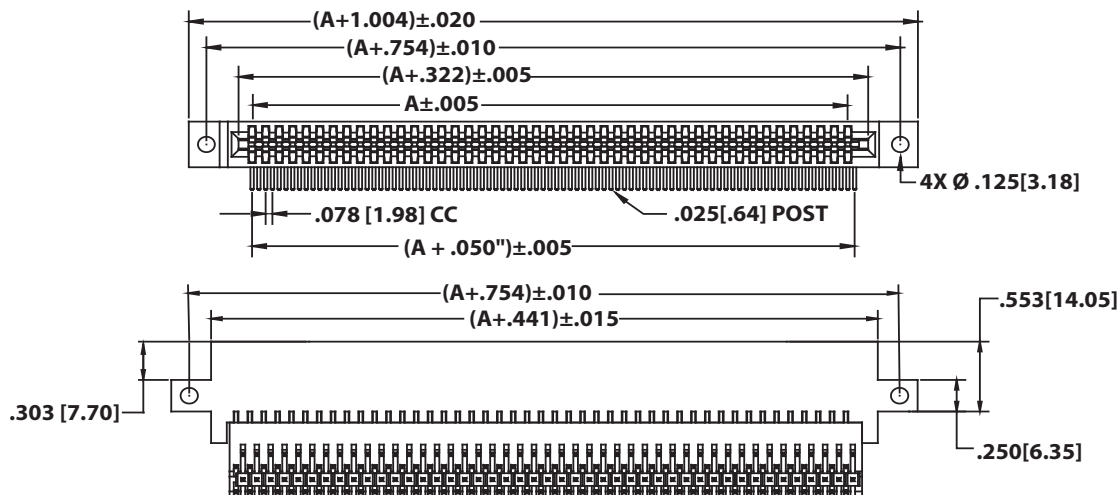
TERMINATION TYPE



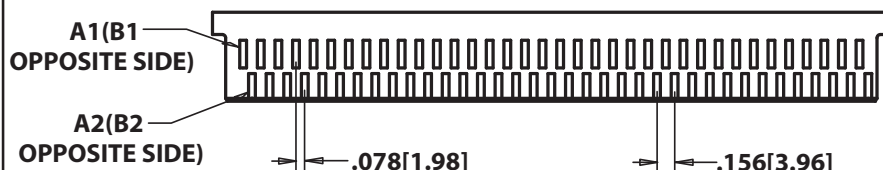
HIGH DENSITY
HIGH TEMPERATURE
HIGH CYCLE
HIGH RELIABILITY

DIMENSIONS

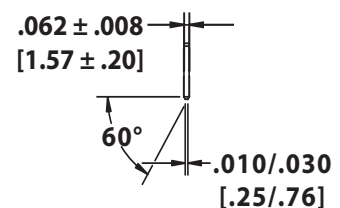
Dimensions in [] are in millimeters, all others are in inches.



DAUGHTER CARD LAYOUT



DAUGHTER CARD SIDE VIEW





PART NUMBER OPTIONS

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
J = PA9T/Beryllium Copper
Operating Temperature: 150°C

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate
Contact Surface Termination

- B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
Y = .000030" Gold .000005" Gold

CONTACT CENTERS

- K = .078" [1.98mm]

J C K 10 D KB S - Sxxx

OMIT FOR STANDARD

S - S1075 = Staggered Ears with
Side Mounting Holes

A - S1076 = Staggered Ears with
#4-40 Threaded Inserts

POSITIONS	Dimension A (See Opposite Page)		
	No. of Contacts	Inches	[MM]
06*	12	0.780	19.81
08*	16	1.092	27.74
10*	20	1.404	35.66
12*	24	1.716	43.59
14*	28	2.028	51.51
16*	32	2.340	59.44
18*	36	2.652	67.36
20	40	2.964	75.29
22*	44	3.276	83.21
24*	48	3.588	91.14
26*	52	3.900	99.06
28*	56	4.212	106.98
30*	60	4.524	114.91
32*	64	4.836	122.83
34*	68	5.148	130.76
36*	72	5.460	138.68
38*	76	5.772	146.61
40*	80	6.084	154.53
42*	84	6.396	162.46
44*	88	6.708	170.38
46*	92	7.020	178.31
48*	96	7.332	186.23
50*	100	7.644	194.16
52*	104	7.956	202.08
54*	108	8.268	210.01
56*	112	8.580	217.93
58*	116	8.892	225.86
60*	120	9.204	233.78
62*	124	9.516	241.71
64*	128	9.828	249.63
66*	132	10.140	257.56
68*	136	10.452	265.48
70*	140	10.764	273.41
72*	144	11.076	281.33

* Consult Factory For Availability.

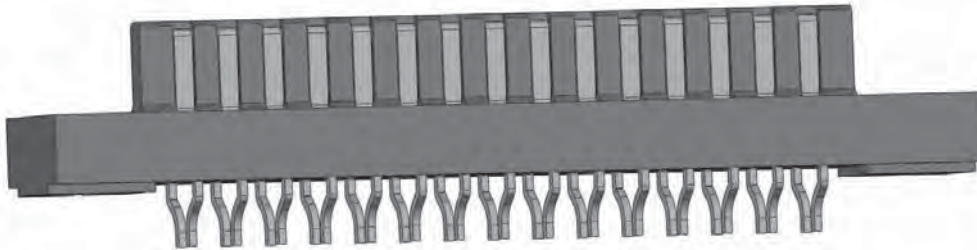
MOUNTING STYLE		
H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING EARS	

MODIFICATION CODE
(CONSULT FACTORY)
STAGGERED EARS WITH SIDE MOUNTING HOLES (S-S1075)
STAGGERED EARS WITH #4-40 THREADED INSERTS (A-S1076)

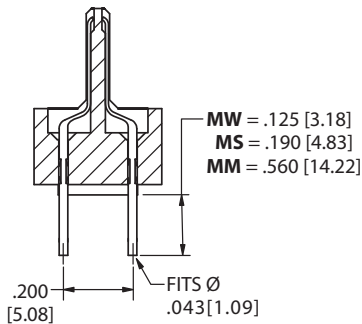


SPECIFICATIONS

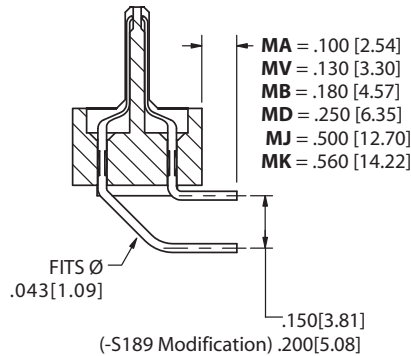
- Compatible with .431" or .610" Insulator Height Card Edges
- Mates in place of .062" [1.57] PCB
- PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



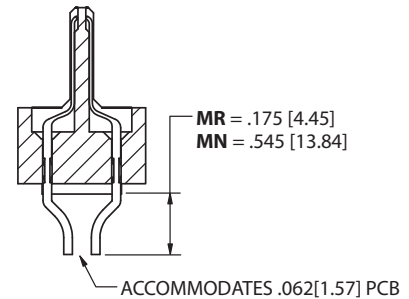
TERMINATION TYPE



**DIP SOLDER (MW, MS)
WIRE WRAP (MM)**

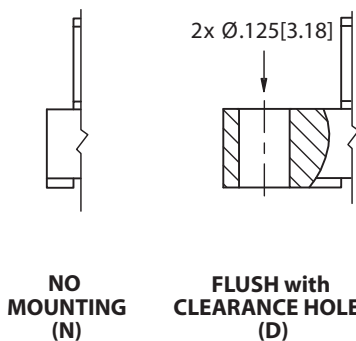


**RIGHT ANGLE
(MA, MV, MB, MD, MJ, MK)**

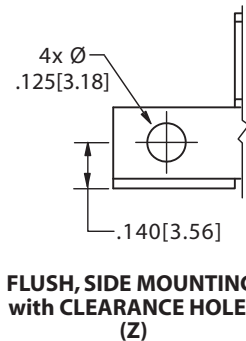


**CARD EXTENDER
(MR, MN)**

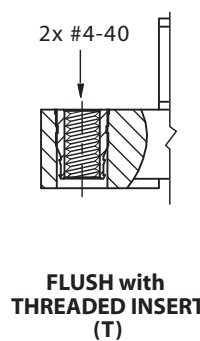
MOUNTING STYLE



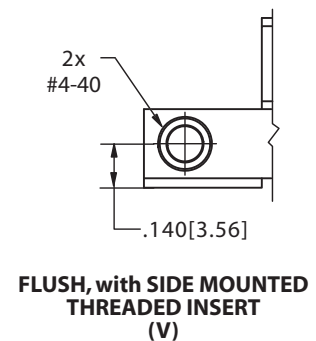
**NO MOUNTING (N)
FLUSH with CLEARANCE HOLES (D)**



FLUSH, SIDE MOUNTING with CLEARANCE HOLES (Z)



FLUSH with THREADED INSERT (T)



FLUSH, with SIDE MOUNTED THREADED INSERT (V)



**.156" [3.96 mm] Contact Centers, .540" [13.72 mm] Insulator Height,
Male Card Edge, Dip Solder/Right Angle/Card Extender**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze
Operating Temperature: -65°C to 125°C
Processing Temperature: 260°C for 10 seconds Max.
- G = PA9T/Phosphor Bronze
Operating Temperature: -65°C to 150°C
Processing Temperature: 260°C for 120 seconds Max.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface

- B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
Y = .000030" Gold .000005" Gold

Termination

CONTACT CENTERS

- M = .156" [3.96mm]

NUMBER OF CONTACT POSITIONS

04 thru 60 Positions (Contact Factory for Positions Not Shown)

E B M 25 M MW D - Sxxx

MODIFICATIONS (Consult Factory)

- Omit for Standard
-S189 = .200" Row Spacing (Right Angle Only)

MOUNTING STYLE (Opposite Page)

- N = No Mounting
D = .250" Ears, Flush Mounting, .125" [3.18mm] Dia
Z = .250" Ears, Flush, Side Mounting
T = .250" Ears, Flush Mounting, #4-40 Threaded Insert
V = Flush, Side Mounting, #4-40 Threaded Insert

TERMINATION TYPE (Opposite Page)

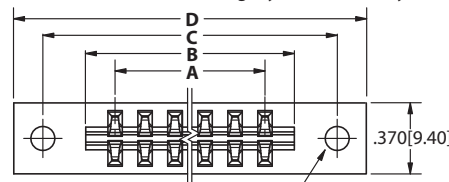
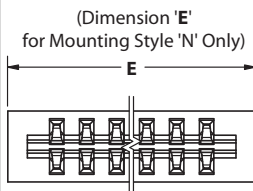
- MW, MS = Dip Solder
MM = Wire Wrap
MA, MV, MB = Right Angle
MD, MJ, MK = Right Angle
MR, MN = Card Extender

M = Male Card Edge

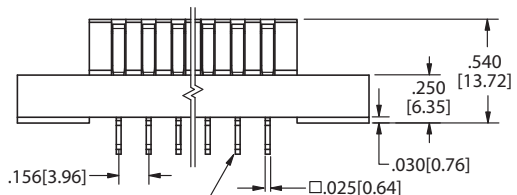
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

(Dimensions 'D' & 'C' for Mounting Style 'D, Z, T, V' Only)



REFER TO MOUNTING STYLE



REFER TO TERMINATION TYPE

POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]				
	A±.008	B±.008	C±.010	D±.020	E±.020 'N' Mtg. Only	A±0.20	B±0.20	C±0.25	D±0.51	E±0.51 'N' Mtg. Only
04/08*	0.468	0.774	1.221	1.524	0.944	11.89	19.66	31.01	38.71	23.98
05/10*	0.624	0.930	1.377	1.680	1.100	15.85	23.62	34.98	42.67	27.94
06/12	0.780	1.086	1.533	1.836	1.256	19.81	27.58	38.94	46.63	31.90
07/14*	0.936	1.242	1.689	1.992	1.412	23.77	31.55	42.90	50.60	35.86
08/16*	1.092	1.398	1.845	2.148	1.568	27.74	35.51	46.86	54.56	39.83
09/18*	1.248	1.554	2.001	2.304	1.724	31.70	39.47	50.83	58.52	43.79
10/20	1.404	1.710	2.157	2.460	1.880	35.66	43.43	54.79	62.48	47.75
11/22	1.560	1.866	2.313	2.616	2.036	39.62	47.40	58.75	66.45	51.71
12/24	1.716	2.022	2.469	2.772	2.192	43.59	51.36	62.71	70.41	55.68
13/26	1.872	2.178	2.625	2.928	2.348	47.55	55.32	66.68	74.37	59.64
14/28	2.028	2.334	2.781	3.084	2.504	51.51	59.28	70.64	78.33	63.60
15/30*	2.184	2.490	2.937	3.240	2.660	55.47	63.25	74.60	82.30	67.56
16/32*	2.340	2.646	3.093	3.396	2.816	59.44	67.21	78.56	86.26	71.53
17/34*	2.496	2.802	3.249	3.552	2.972	63.40	71.17	82.52	90.22	75.49
18/36	2.652	2.958	3.405	3.708	3.128	67.36	75.13	86.49	94.18	79.45
19/38*	2.808	3.114	3.561	3.864	3.284	71.32	79.10	90.45	98.15	83.41
20/40*	2.964	3.270	3.717	4.020	3.440	75.29	83.06	94.41	102.11	87.38
21/42*	3.120	3.426	3.873	4.176	3.596	79.25	87.02	98.37	106.07	91.34
22/44	3.276	3.582	4.029	4.332	3.752	83.21	90.98	102.34	110.03	95.30
23/46	3.432	3.738	4.185	4.488	3.908	87.17	94.95	106.30	114.00	99.26
24/48	3.588	3.894	4.341	4.644	4.064	91.14	98.91	110.26	117.96	103.23
25/50*	3.744	4.050	4.497	4.800	4.220	95.10	102.87	114.22	121.92	107.19
26/52*	3.900	4.206	4.653	4.956	4.376	99.06	106.83	118.19	125.88	111.15
27/54*	4.056	4.362	4.809	5.112	4.532	103.02	110.79	122.15	129.84	115.11
28/56	4.212	4.518	4.965	5.268	4.688	106.98	114.76	126.11	133.81	119.08
29/58*	4.368	4.674	5.121	5.424	4.844	110.95	118.72	130.07	137.77	123.04
30/60*	4.524	4.830	5.277	5.580	5.000	114.91	122.68	134.04	141.73	127.00
31/62*	4.680	4.986	5.433	5.736	5.156	118.87	126.64	138.00	145.69	130.96
32/64*	4.836	5.142	5.589	5.892	5.312	122.83	130.61	141.96	149.66	134.92
33/66*	4.992	5.298	5.745	6.048	5.468	126.80	134.57	145.92	153.62	138.89
34/68	5.148	5.454	5.901	6.204	5.624	130.76	138.53	149.89	157.58	142.85
35/70	5.304	5.610	6.057	6.360	5.780	134.72	142.49	153.85	161.54	146.81
36/72	5.460	5.766	6.213	6.516	5.936	138.68	146.46	157.81	165.51	150.77
37/74†	5.616	5.922	-----	-----	6.092	142.65	150.42	-----	-----	154.74
38/76†	5.772	6.078	-----	-----	6.248	146.61	154.38	-----	-----	158.70
39/78*†	5.928	6.234	-----	-----	6.404	150.57	158.34	-----	-----	162.66
40/80*†	6.084	6.390	-----	-----	6.560	154.53	162.31	-----	-----	166.62

* Consult Factory for Availability.

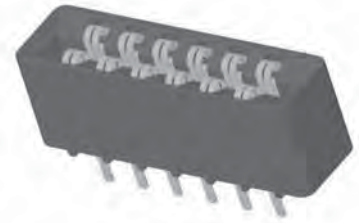
† Available in 'N' Mounting Only



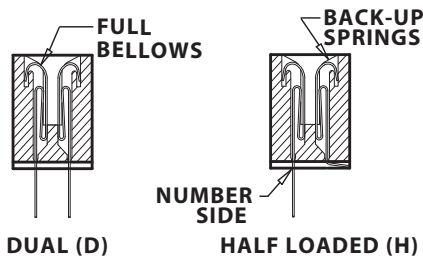
.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle

SPECIFICATIONS

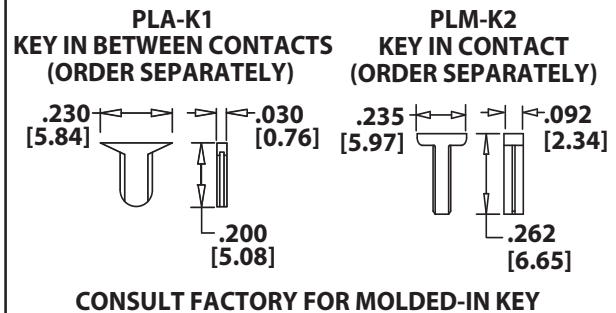
- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- Molded-in key available
- 3 amp current rating per contact
(for 5 amp application, consult factory)
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



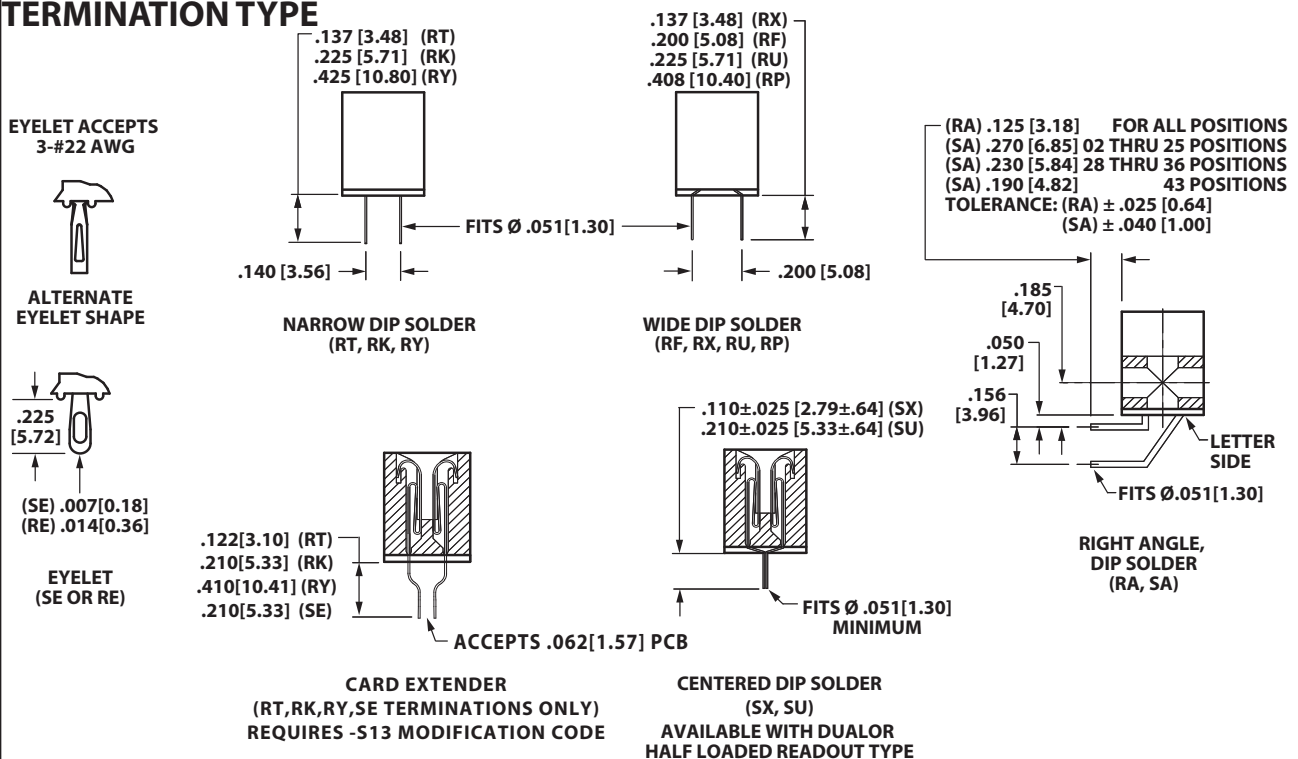
READOUT



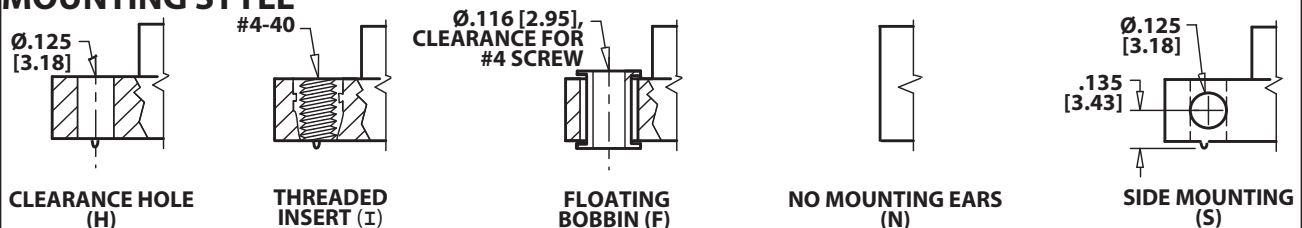
POLARIZING KEY



TERMINATION TYPE



MOUNTING STYLE





**.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Dip Solder/Eyelet/Right Angle**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

- E = PBT/Phosphor Bronze (Standard)
- R = PPS/Phosphor Bronze
- G = PA9T/Phosphor bronze
- H = PBT/Beryllium Copper
- A = PPS/Beryllium Copper
- J = PA9T/Beryllium Copper
- *F = PPS/Spinodal (Overall Gold Plating Only)
Consult Factory for Special Soldering Guidelines
- *C = PPS/Beryllium Nickel (Overall Gold Plating Only)
- *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)
- *Consult Factory for availability.

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

M = .156" [3.96mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

E B M 43 D RK H - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

-S13 = Card Extender Accepts .062" [1.57] PCB
(RT, RK, RY, SE Terminations Only)

MOUNTING STYLE (Opposite Page)

- H = .125" [3.18mm] Clearance Holes
- N = No Mounting
- S = Side Mounting
- I = Threaded Insert
- F = Floating Bobbin

TERMINATION TYPE (Opposite Page)

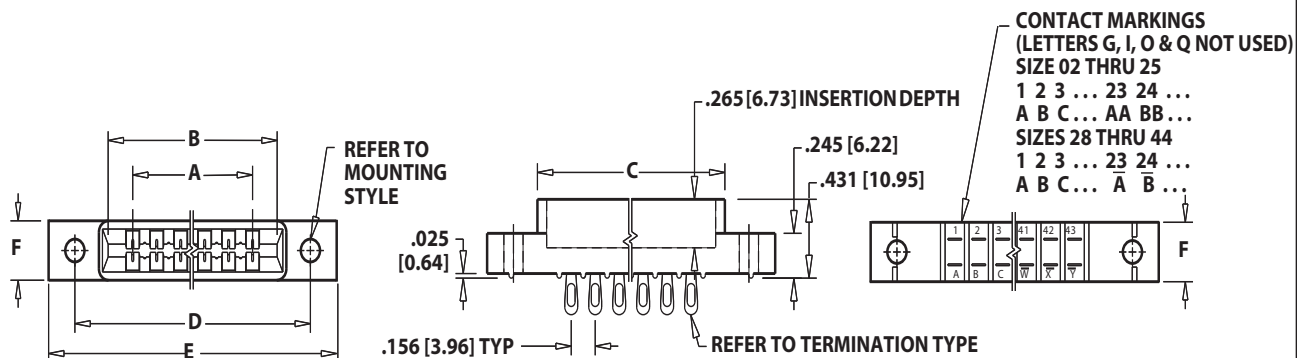
- RA = .125" Right Angle Dip Solder
- SA = Long Right Angle Dip Solder
- RT = .140" x .137" Dip Solder
- RK = .140" x .225" Dip Solder
- RY = .140" x .425" Dip Solder
- RX = .200" x .137" Dip Solder
- RF = .200" x .200" Dip Solder
- RU = .200" x .225" Dip Solder
- RP = .200" x .408" Dip Solder
- SX = .110" [2.79mm] Centered Dip Solder
- SU = .210" [5.33mm] Centered Dip Solder
- SE = .007" [0.18mm] Thick Eyelet
- RE = .014" [0.36mm] Thick Eyelet

READOUT (Opposite Page)

- D = Dual
- D = Dual Row/ Crimp to Center for
Single Readout (SX, SU Termination Only)
- H = Half Loaded

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

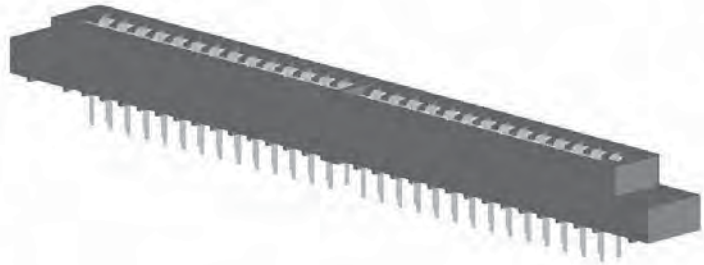
POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13
02/04	0.156	0.476	0.596	'N' MOUNTING			3.96	12.09	15.14	'N' MOUNTING		
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING		
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31	
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24	
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16	
11/22	1.560	1.880	2.000	2.313	2.682		39.62	47.75	50.80	58.75	68.12	
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09	
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97	
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86	
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71	
24/48	3.588	3.908	4.028	4.341	4.710		91.14	99.26	102.31	110.26	119.63	
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60	
28/56	4.212	4.532	4.652	4.965	5.334		106.98	115.11	118.16	126.11	135.48	
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18	
43/86	6.552	6.872	6.992	7.305	7.674		166.42	174.55	177.60	185.55	194.92	
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88	



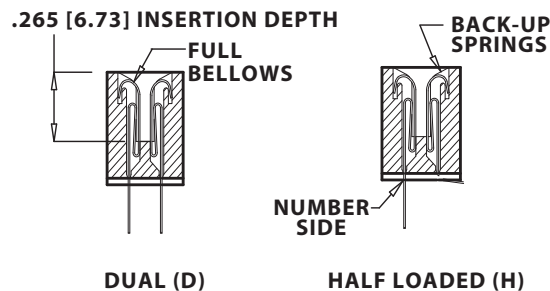
.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Special Body Configuration Dip Solder/Eyelet/Right Angle

SPECIFICATIONS

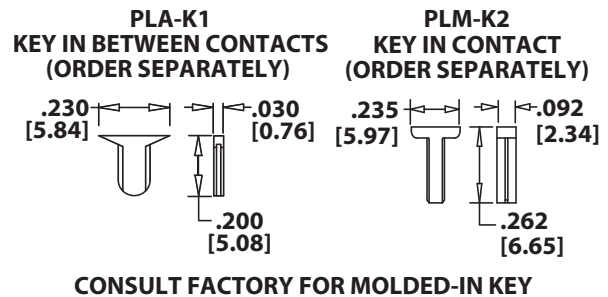
- Accommodates .062" \pm .008"
[1.57 \pm .20] PC board
- Molded-in key available
- 3 amp current rating per contact
(for 5 amp application, consult factory)
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



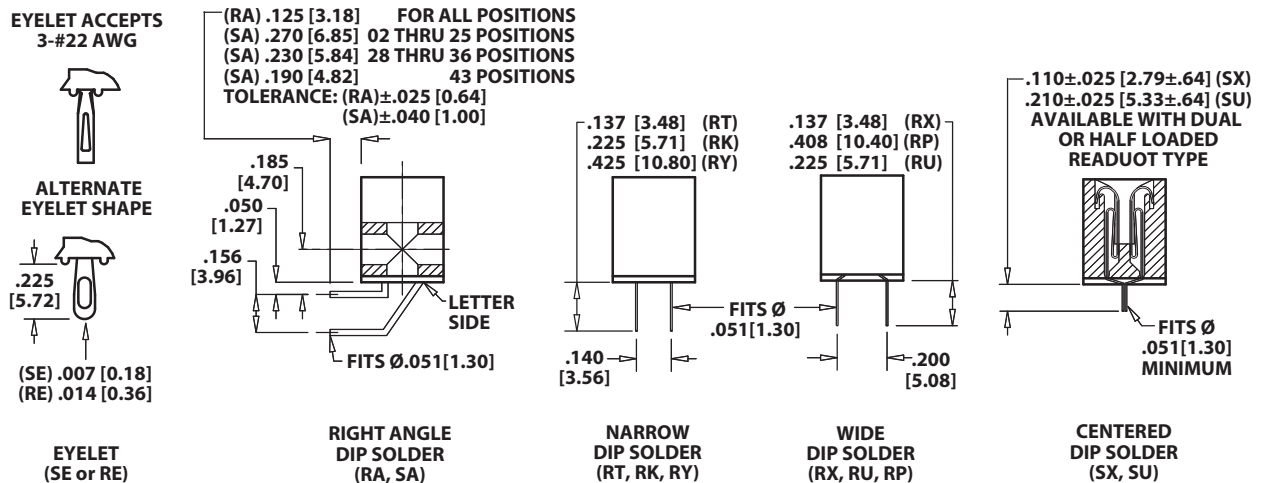
READOUT



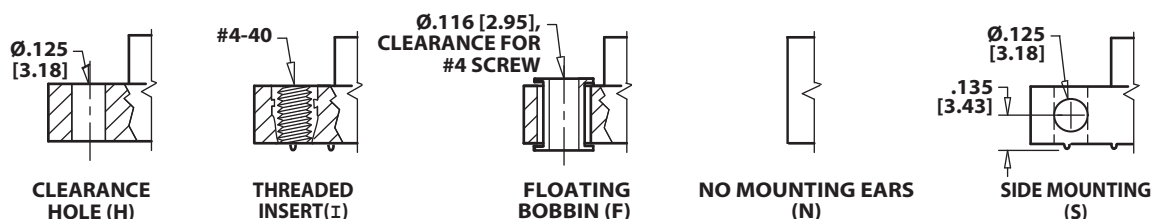
POLARIZING KEY



TERMINATION TYPE



MOUNTING STYLE





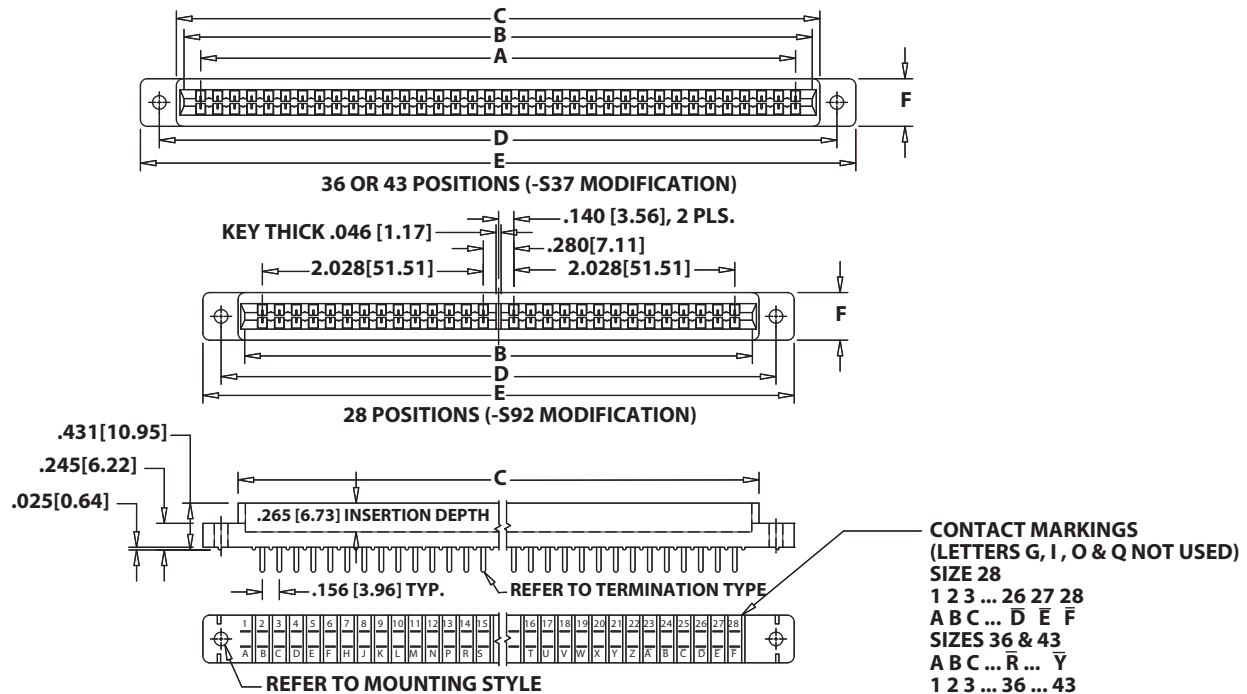
**.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height
Special Body Configuration Dip Solder/Eyelet/Right Angle**

PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)	E B M 43 D RT H - S37	MODIFICATION CODE (Consult Factory)
E = PBT/Phosphor Bronze (Standard)		-S37 = Reverse Contact ID & Shorter Card Slot Length
R = PPS/Phosphor Bronze		-S92 = Center Barrier Molded in Card Slot
G = PA9T/Phosphor bronze		
H = PBT/Beryllium Copper		MOUNTING STYLE (Opposite Page)
A = PPS/Beryllium Copper		H = .125" [3.18mm] Clearance Holes
J = PA9T/Beryllium Copper		N = No Mounting
*F = PPS/Spinodal (Overall Gold Plating Only)		S = Side Mounting
Consult Factory for Special Soldering Guidelines		I = Threaded Insert
*C = PPS/Beryllium Nickel (Overall Gold Plating Only)		F = Floating Bobbin
*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)		
*Consult Factory for availability.		TERMINATION TYPE (Opposite Page)
CONTACT FINISH - RoHS Compliant		RA = .125" Right Angle Dip Solder
All platings are Lead Free and have .000050" Nickel underplate		SA = Long Right Angle Dip Solder
Contact Surface Termination		RT = .140" x .137" Dip Solder
B = .000010" Gold .000100" Pure Tin, Matte		RK = .140" x .225" Dip Solder
C = .000030" Gold .000100" Pure Tin, Matte		RY = .140" x .425" Dip Solder
G = .000010" Gold .000005" Gold		RX = .200" x .137" Dip Solder
Y = .000030" Gold .000005" Gold		RU = .200" x .225" Dip Solder
Contact Surface Overall Plating		RP = .200" x .408" Dip Solder
S = .000010" Gold .000010" Gold		SX = .110" [2.79mm] Centered Dip Solder
M = .000030" Gold .000010" Gold		SU = .210" [5.33mm] Centered Dip Solder
E = .000100" Pure Tin, Matte .000100" Pure Tin, Matte		SE = .007" [0.18mm] Thick Eyelet
		RE = .014" [0.36mm] Thick Eyelet
CONTACT CENTERS		READOUT (Opposite Page)
M = .156" [3.96mm]		D = Dual
NUMBER OF CONTACT POSITIONS		D = Dual Row/ Crimp to Center for Single
28 (14/14), 36 or 43		Readout (SX, SU Termination Only)
		H = Half Loaded

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

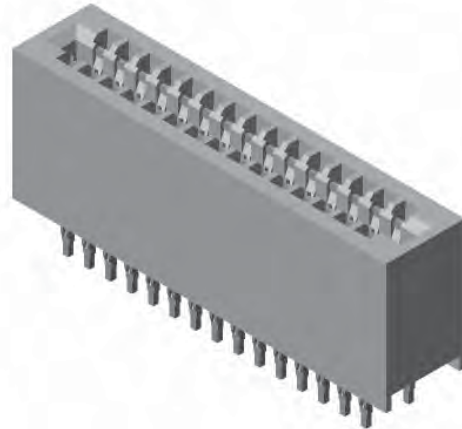
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]						CENTER BARRIER
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13	
28/56		4.660	4.780	5.093	5.427	0.438		118.36	121.41	129.36	137.85	11.13	YES
36/72	5.460	5.766	5.906	6.219	6.566	0.438	138.68	146.46	150.01	157.96	166.78	11.13	NO
43/86	6.552	6.810	7.000	7.302	7.643	0.500	166.42	172.97	177.80	185.47	194.13	12.70	NO



.156" [3.96 mm] Contact Centers, .550" [13.97 mm] or .610" [15.49 mm] Profile Press Fit

SPECIFICATIONS

- Designed to meet specifications of Bellcore specification TR-TSY-00078.
- Flat rock installation eliminates the need for any special installation tool.
- Integrally molded scoops available to assist daughter card entry.
- Various insulator options per customer requirements, including:
 - Open ended on one side
 - Open ended on both sides to accommodate end to end mounting
 - Molded in keys per customer requirements.



FEATURES

COMPLIANT SECTION INSERTION FORCE

40 lbs maximum per contact

COMPLIANT SECTION WITHDRAWAL FORCE

10 lbs minimum per contact

HOLE SIZE REQUIREMENTS

Drilled Hole Diameter: $.0453" \pm .0010"$ [1.15 \pm .03]

Plating: $.001" [.03]$ to $.003" [.08]$ Copper and $.0003" [.01]$ Minimum Tin

FINISHED HOLE DIAMETER

$.040" \pm .003"$ [1.02 \pm .08]

SUITABLE FOR .062" [1.57] DAUGHTER CARD

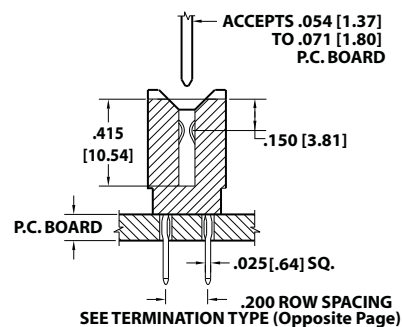
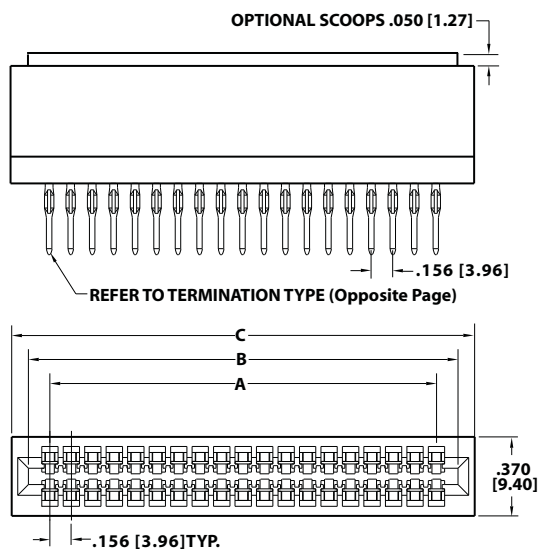
RECOMMENDED MOTHERBOARD THICKNESS

$.093"$ to $.125"$ [2.36 to 3.18]

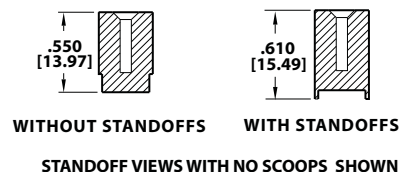
UL-CUL RECOGNIZED

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



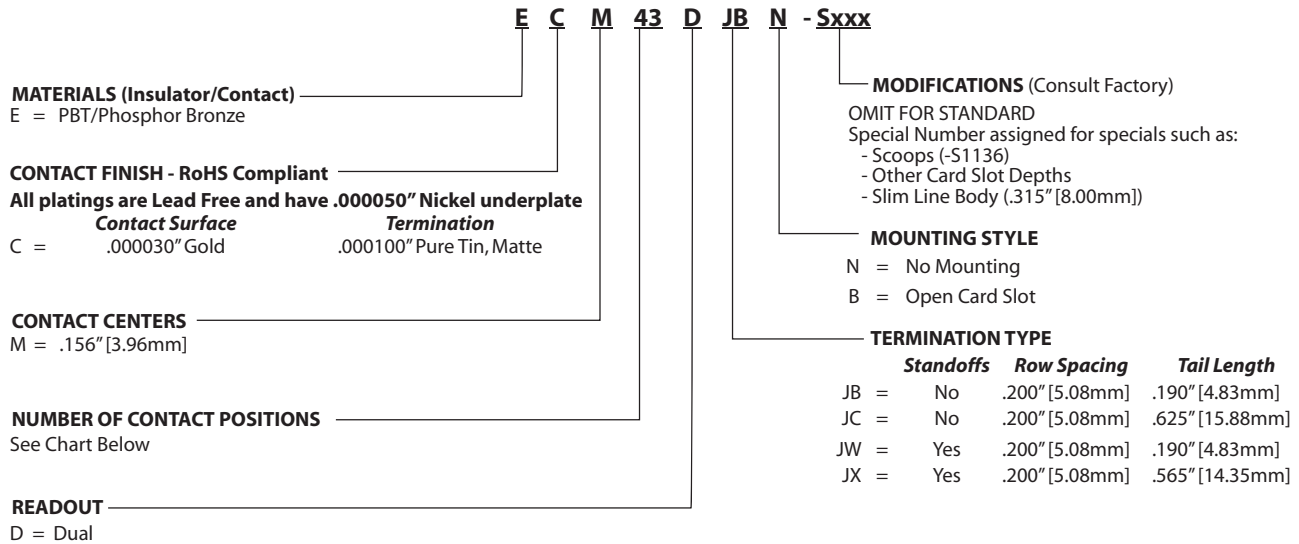
-S1136 (WITH SCOOPS) SHOWN ABOVE





**.156" [3.96 mm] Contact Centers, .550" [13.97 mm] or .610" [15.49 mm] Profile
Press Fit**

PART NUMBER OPTIONS



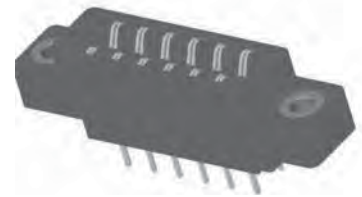
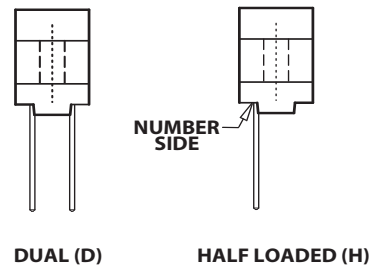
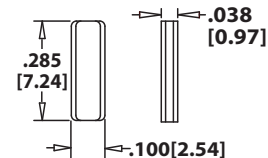
POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
05/10*	0.624	15.85	0.944	23.98	1.080	27.43
06/12*	0.780	19.81	1.100	27.94	1.236	31.39
07/14*	0.936	23.77	1.256	31.90	1.392	35.36
08/16*	1.092	27.74	1.412	35.86	1.548	39.32
09/18*	1.248	31.70	1.568	39.83	1.704	43.28
10/20	1.404	35.66	1.724	43.79	1.860	47.24
11/22*	1.560	39.62	1.880	47.75	2.016	51.21
12/24*	1.716	43.59	2.036	51.71	2.172	55.17
13/26*	1.872	47.55	2.192	55.68	2.328	59.13
14/28*	2.028	51.51	2.348	59.64	2.484	63.09
15/30*	2.184	55.47	2.504	63.60	2.640	67.06
16/32*	2.340	59.44	2.660	67.56	2.796	71.02
17/34*	2.496	63.40	2.816	71.53	2.952	74.98
18/36*	2.652	67.36	2.972	75.49	3.108	78.94
19/38*	2.808	71.32	3.128	79.45	3.264	82.91
20/40*	2.964	75.29	3.284	83.41	3.420	86.87
21/42*	3.120	79.25	3.440	87.38	3.576	90.83
22/44	3.276	83.21	3.596	91.34	3.732	94.79

* Consult Factory For Availability.

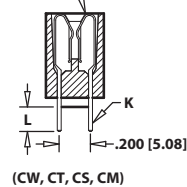
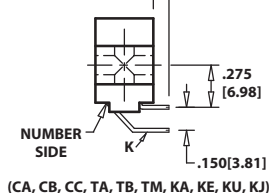
POSITIONS/ CONTACTS	A±.008[0.20]		B±.008[0.20]		C±.015[0.38]	
	INCH	[MM]	INCH	[MM]	INCH	[MM]
23/46*	3.432	87.17	3.752	95.30	3.888	98.76
24/48*	3.588	91.14	3.908	99.26	4.044	102.72
25/50*	3.744	95.10	4.064	103.23	4.200	106.68
26/52*	3.900	99.06	4.220	107.19	4.356	110.64
27/54*	4.056	103.02	4.376	111.15	4.512	114.60
28/56*	4.212	106.98	4.532	115.11	4.668	118.57
29/58*	4.368	110.95	4.688	119.08	4.824	122.53
30/60*	4.524	114.91	4.844	123.04	4.980	126.49
31/62*	4.680	118.87	5.000	127.00	5.136	130.45
32/64*	4.836	122.83	5.156	130.96	5.292	134.42
33/66*	4.992	126.80	5.312	134.92	5.448	138.38
34/68*	5.148	130.76	5.468	138.89	5.604	142.34
35/70*	5.304	134.72	5.624	142.85	5.760	146.30
36/72*	5.460	138.68	5.780	146.81	5.916	150.27
37/74*	5.616	142.65	5.936	150.77	6.072	154.23
38/76*	5.772	146.61	6.092	154.74	6.228	158.19
39/78*	5.928	150.57	6.248	158.70	6.384	162.15

**.156" [3.96 mm] Contact Centers, .610" [15.49 mm] Insulator Height**
Dip Solder/Wire Wrap/Right Angle/Card Extender**SPECIFICATIONS**

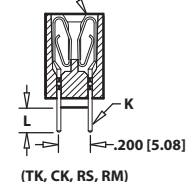
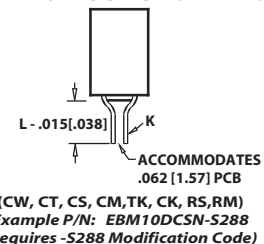
- Accommodates .062" \pm .008" [1.57 \pm .20] PC board (See page 78-79 for .093" \pm .008" [2.36 \pm .20] and .125" \pm .008" [3.18 \pm .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

**READOUT****POLARIZING KEY****PLC-K1****KEY IN BETWEEN CONTACTS (ORDER SEPARATELY)****TERMINATION TYPE**

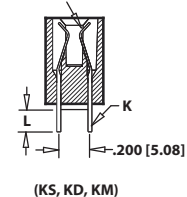
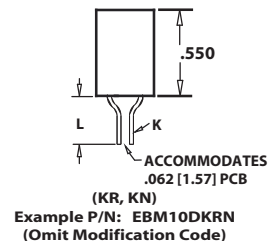
HAIRPIN BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
CW	DIP SOLDER	.015 x .025 [.38 x .64]	.125 [3.18]	.035 [0.76]
CT	DIP SOLDER	.015 x .025 [.38 x .64]	.170 [4.32]	.035 [0.76]
CS	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.040 [1.02]
CM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
CA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
CB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
CC	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

HAIRPIN BELLOWS**RIGHT ANGLE**

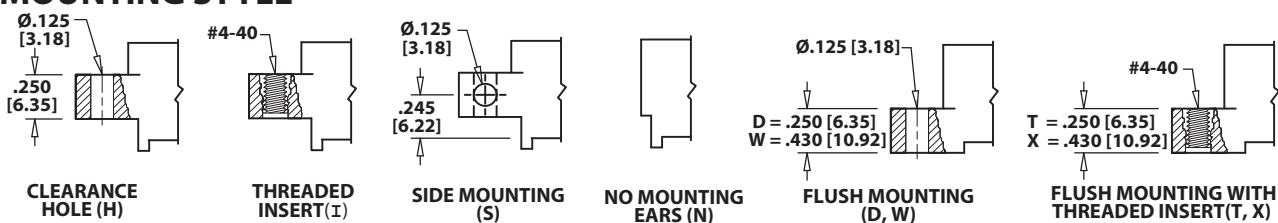
LOOP BELLOWS	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
TK,CK	DIP SOLDER	.026 [.66] ROUND	.190 [4.83]	.030 [0.76]
RS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

LOOP BELLOWS**HAIRPIN or LOOP CARD EXTENDER**

CANTILEVER	TERMINATION TYPE	POST CROSS SECTION K	POST LENGTH L .025 [.64]	FITS MIN. HOLE SIZE
KS	DIP SOLDER	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
KD	DIP SOLDER	.025 [.64] SQUARE	.160 [4.06]	.043 [1.09]
KM	WIRE WRAP	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
*KA	RIGHT ANGLE	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
*KE	RIGHT ANGLE	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
*KU	RIGHT ANGLE	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]
*KJ	RIGHT ANGLE	.025 [.64] SQUARE	.500 [12.70]	.043 [1.09]
*KR	CARD EXTENDER	.025 [.64] SQUARE	.235 [5.97]	N/A
*KN	CARD EXTENDER	.025 [.64] SQUARE	.605 [15.37]	N/A

CANTILEVER**CANTILEVER CARD EXTENDER**

* KA, KE, KJ, KR, KN have no standoffs, unless requested.

MOUNTING STYLE

**.156" [3.96 mm] Contact Centers, .610" [15.49 mm] Insulator Height
Dip Solder/Wire Wrap/Right Angle/Card Extender**



PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory For Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

	Contact Surface	Termination
B =	.000010" Gold	.000100" Pure Tin, Matte
C =	.000030" Gold	.000100" Pure Tin, Matte
G =	.000010" Gold	.000005" Gold
Y =	.000030" Gold	.000005" Gold
	Contact Surface	Overall Plating
S =	.000010" Gold	.000010" Gold
M =	.000030" Gold	.000010" Gold
E =	.000100" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS

M = .156" [3.96mm]

NUMBER OF CONTACT POSITIONS

See Chart Below

READOUT (Opposite Page)

D = Dual
H = Half Loaded

E B M 43 D CM H - Sxxx

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

-S189 = .200" [5.08mm] Row to Row on Right Angle
-S288* = Card Extender Accepts .062" [1.57] PCB
* Not Required on KR or KN Terminations

MOUNTING STYLE (Opposite Page)

H = Clearance Holes
I = Threaded Inserts
S = Side Mounting
N = No Mounting
D, W = Flush Mounting
T, X = Flush Mounting With Threaded Inserts

TERMINATION TYPE (Opposite Page)

Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only

CS = .025" [.64mm] Square Dip Solder
CM = .025 [.64mm] Square Wire Wrap
CA, CB, CC = .025" [.64mm] Square Right Angle
CW, CT = .015" x .025" [.38 x .64] Dip Solder

Loop Bellows

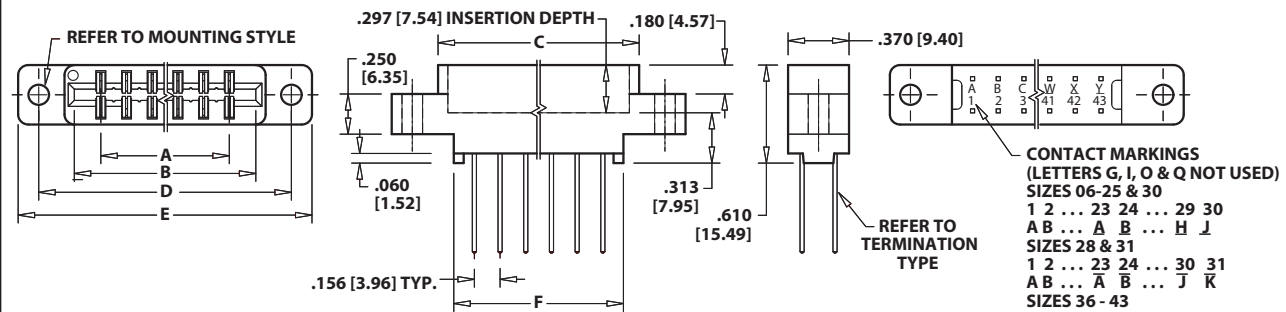
RS = .025" [.64mm] Square Dip Solder
CK, TK = .026" [.66mm] Round Dip Solder
RM = .025" [.64mm] Square Wire Wrap
TA, TB, TM = .025" [.64mm] Square Right Angle

**Cantilever Bellows - Available in Y, B, or C Contact Finish Only
Not Available with R or A Materials**

KS, KD = .025" [.64mm] Square Dip Solder
KM = .025 [.64mm] Square Wire Wrap
KA, KE, KU, KJ = .025" [.64mm] Square Right Angle
KR, KN = .025" [.64mm] Square Card Extender

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77
47/94	7.176	7.498	7.617	7.930	8.180	7.426	182.27	190.45	193.47	201.42	207.77	188.62
50/100	7.644	7.966	8.085	8.398	8.648	7.894	194.16	202.34	205.36	213.31	219.66	200.51

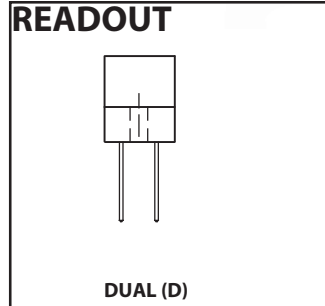
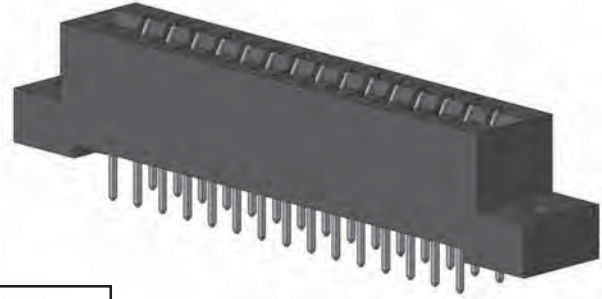
* Consult Factory for availability.



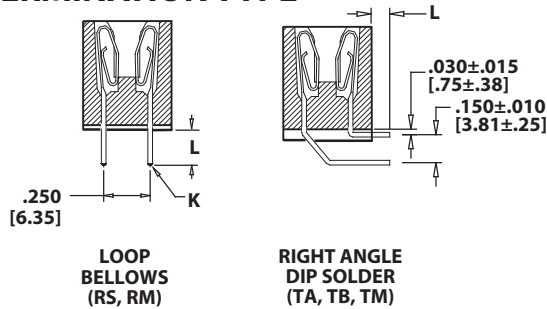
.156" [3.96 mm] Contact Centers, .610" [15.49 mm] Insulator Height
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB

SPECIFICATIONS

- Accommodates .093" \pm .008" [2.36 \pm .20] or .125" \pm .008" [3.18 \pm .20] mating PCB (Consult factory for .031" \pm .008" [.79 \pm .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0

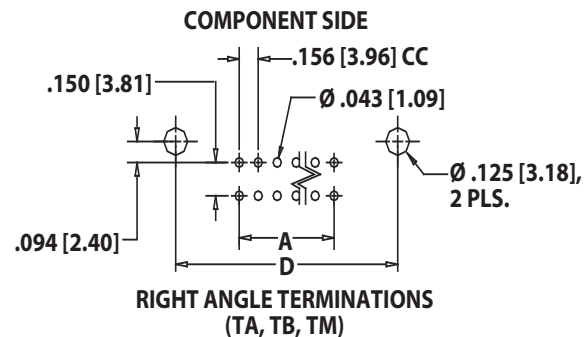
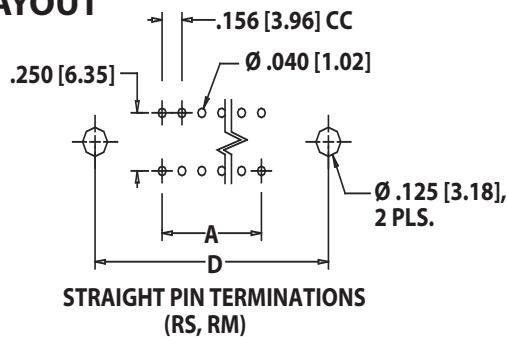


TERMINATION TYPE

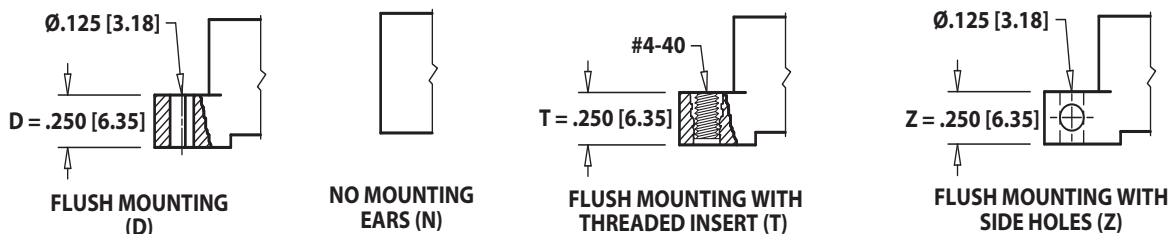


TERMINATION TYPE		POST CROSS SECTION (K)	POST LENGTH L \pm .025 [.64]	FITS MIN. HOLE SIZE
RS	Dip Solder	.025 [.64] SQUARE	.190 [4.83]	.040 [1.02]
RM	Wire Wrap	.025 [.64] SQUARE	.560 [14.20]	.040 [1.02]
TA	Right Angle	.025 [.64] SQUARE	.100 [2.54]	.043 [1.09]
TB	Right Angle	.025 [.64] SQUARE	.180 [4.57]	.043 [1.09]
TM	Right Angle	.025 [.64] SQUARE	.250 [6.35]	.043 [1.09]

PCB LAYOUT



MOUNTING STYLE





.156" [3.96 mm] Contact Centers, .610" [15.49 mm] Insulator Height
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB

PART NUMBER OPTIONS

E B M 43 D RM D - S273

MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)
R = PPS/Phosphor Bronze
G = PA9T/Phosphor Bronze
A = PPS/Beryllium Copper
J = PA9T/Beryllium Copper
(Consult Factory For Other Materials)

CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface Termination

B = .000010" Gold .000100" Pure Tin, Matte
C = .000030" Gold .000100" Pure Tin, Matte
G = .000010" Gold .000005" Gold
Y = .000030" Gold .000005" Gold

Contact Surface Overall Plating

S = .000010" Gold .000010" Gold
M = .000030" Gold .000010" Gold
E = .000100" Pure Tin, Matte .000100" Pure Tin, Matte

CONTACT CENTERS

M = .156" [3.96mm]

MODIFICATION CODE (Consult Factory)

-S273 = FOR .093" ± .008" [2.36 ± .20] THICK MATING PCB
-S664 = FOR .125" ± .008" [3.18 ± .20] THICK MATING PCB

MOUNTING STYLE (Opposite Page)

N = No Mounting
D = Flush Mounting
T = Flush Mounting With Threaded Inserts
Z = Flush Mounting With Side Holes

TERMINATION TYPE (Opposite Page)

RS = .025" [.64mm] Square Dip Solder
RM = .025" [.64mm] Square Wire Wrap
TA, TB, TM = .025" [.64mm] Square Right Angle

READOUT (Opposite Page)

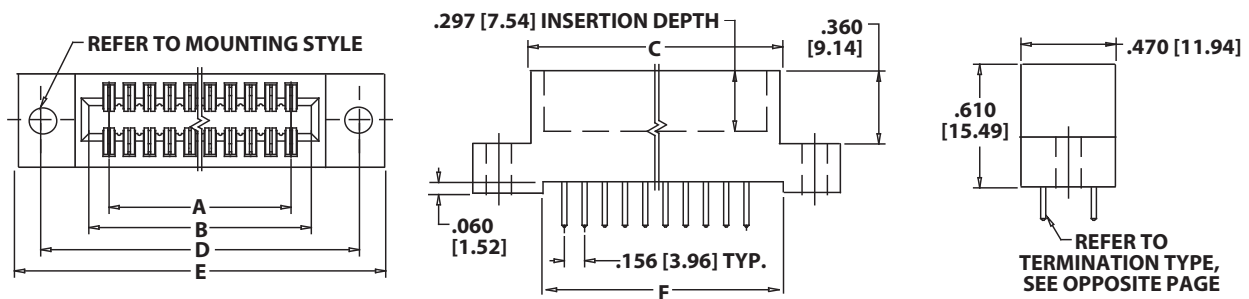
D = Dual

NUMBER OF CONTACT POSITIONS

See Chart Below

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.780	1.102	1.221	1.534	1.784	1.104	19.81	27.99	31.01	38.96	45.31	28.04
08/16*	1.092	1.414	1.533	1.846	2.096	1.416	27.74	35.92	38.94	46.89	53.24	35.97
10/20	1.404	1.726	1.845	2.158	2.408	1.728	35.66	43.84	46.86	54.81	61.16	43.89
12/24	1.716	2.038	2.157	2.470	2.720	2.040	43.59	51.77	54.79	62.74	69.09	51.82
15/30	2.184	2.506	2.625	2.938	3.188	2.508	55.47	63.65	66.68	74.63	80.98	63.70
18/36*	2.652	2.974	3.093	3.406	3.656	2.976	67.36	75.54	78.56	86.51	92.86	75.59
20/40*	2.964	3.286	3.405	3.718	3.968	3.288	75.29	83.46	86.49	94.44	100.79	83.52
22/44*	3.276	3.598	3.717	4.030	4.280	3.600	83.21	91.39	94.41	102.36	108.71	91.44
24/48*	3.588	3.910	4.029	4.342	4.592	3.912	91.14	99.31	102.34	110.29	116.64	99.37
25/50*	3.744	4.066	4.185	4.498	4.748	4.068	95.10	103.28	106.30	114.25	120.60	103.33
28/56*	4.212	4.534	4.653	4.966	5.216	4.536	106.98	115.16	118.19	126.14	132.49	115.21
30/60*	4.524	4.846	4.965	5.278	5.528	4.848	114.91	123.09	126.11	134.06	140.41	123.14
31/62*	4.680	5.002	5.121	5.434	5.684	5.004	118.87	127.05	130.07	138.02	144.37	127.10
32/64	4.836	5.158	5.277	5.590	5.840	5.160	122.83	131.01	134.04	141.99	148.34	131.06
36/72	5.460	5.782	5.901	6.214	6.464	5.784	138.68	146.86	149.89	157.84	164.19	146.91
40/80*	6.084	6.406	6.525	6.838	7.088	6.408	154.53	162.71	165.74	173.69	180.04	162.76
43/86*	6.552	6.874	6.993	7.306	7.556	6.876	166.42	174.60	177.62	185.57	191.92	174.65

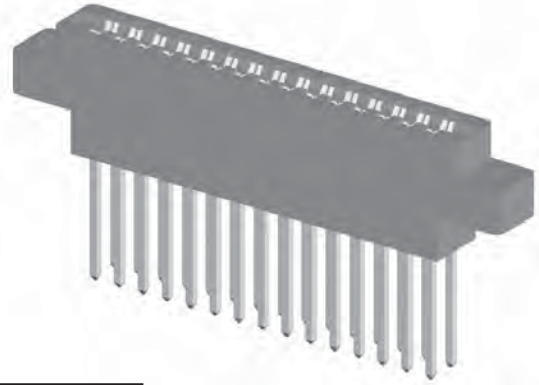
* Consult Factory For Availability.



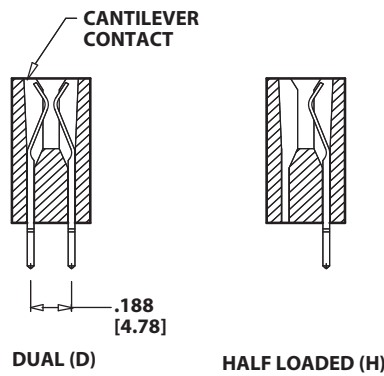
**.156" [3.96 mm] Contact Centers, .720" [18.29 mm] Insulator Height
.045" [1.14 mm] square / .031" [.79 mm] x .062" [1.57 mm] Wire Wrap**

SPECIFICATIONS

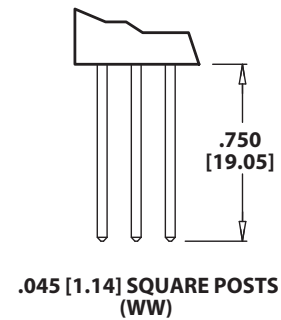
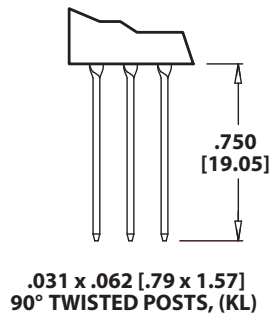
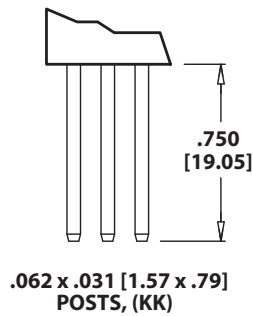
- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- PBT insulator
- Molded-in key available
- In Between Contact Key use PLC-K1, see page 170 (sold separately)
- 5 amp current rating per contact
- 30 milli ohm maximum at rated current
- UL Flammability Rating: 94V-0



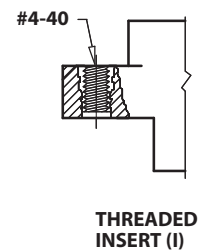
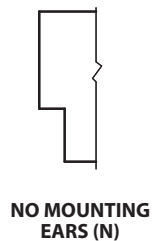
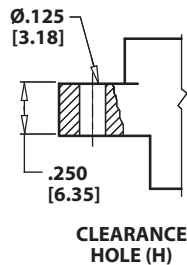
READOUT



TERMINATION TYPE



MOUNTING STYLE



**.156" [3.96mm] Contact Centers, .720" [18.29 mm] Insulator Height
.045" [1.14 mm] square / .031" [.79 mm] x .062" [1.57 mm] Wire Wrap**

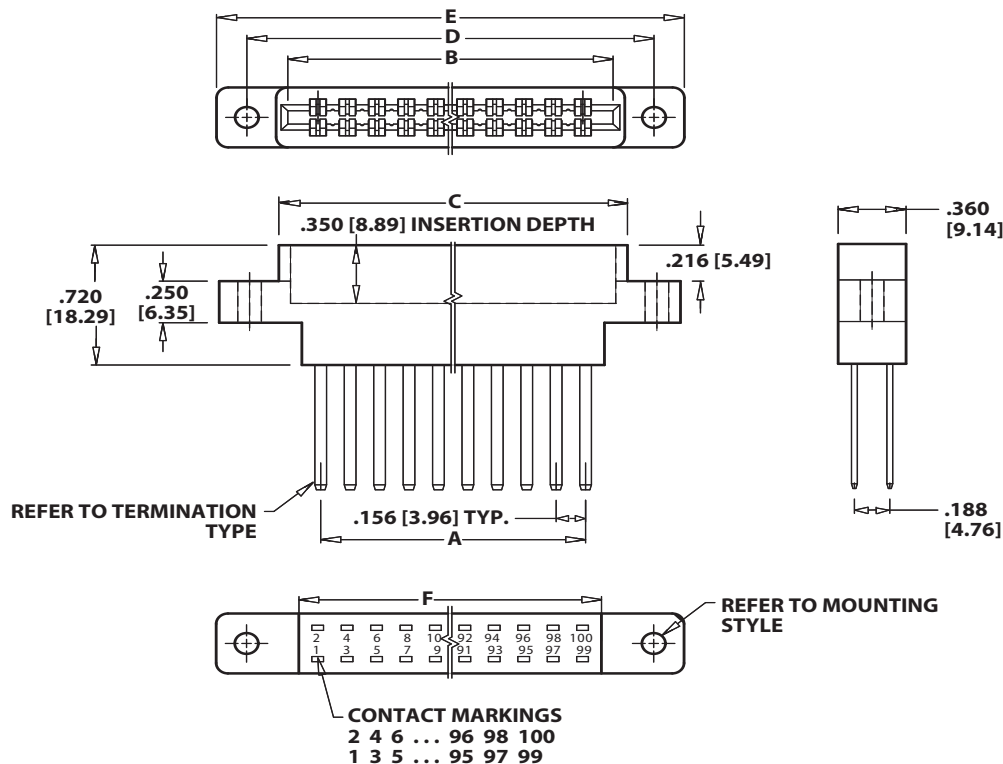


PART NUMBER OPTIONS

MATERIALS (Insulator/Contact)	E	B	M	43	D	KK	H	- Sxxx	MODIFICATION CODE (Consult Factory) OMIT FOR STANDARD
E = PBT/Phosphor Bronze (Standard) (Consult Factory For Other Materials)									MOUNTING STYLE (Opposite page) H = Clearance Hole N = No Mounting I = Threaded Inserts
CONTACT FINISH - RoHS Compliant All platings are Lead Free and have .000050" Nickel underplate									TERMINATION TYPE (Opposite Page) KK = .031" [.79mm] x .062" [1.57mm] Post KL = .031" [.79mm] x .062" [1.57mm] Post, Twisted 90° WW = .045" [1.14mm] Square Post
Contact Surface									READOUT (Opposite Page) D = Dual Row H = Half Loaded
Termination									NUMBER OF CONTACT POSITIONS See Chart Below
B = .000010" Gold									
C = .000030" Gold									
G = .000010" Gold									
Y = .000030" Gold									
Overall Plating									
S = .000010" Gold									
M = .000030" Gold									
E = .000100" Pure Tin, Matte									

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12*	0.780	1.100	1.224	1.534	1.784	0.980	19.81	27.94	31.09	38.96	45.31	24.89
10/20	1.404	1.724	1.848	2.158	2.408	1.604	35.66	43.79	46.94	54.81	61.16	40.74
12/24	1.716	2.036	2.160	2.470	2.720	1.916	43.59	51.71	54.86	62.74	69.09	48.67
15/30	2.184	2.504	2.628	2.938	3.188	2.384	55.47	63.60	66.75	74.63	80.98	60.55
18/36	2.652	2.972	3.096	3.406	3.656	2.852	67.36	75.49	78.64	86.51	92.86	72.44
22/44	3.276	3.596	3.720	4.030	4.280	3.476	83.21	91.34	94.49	102.36	108.71	88.29
25/50*	3.744	4.064	4.188	4.498	4.748	3.944	95.10	103.23	106.38	114.25	120.60	100.18
28/56	4.212	4.532	4.656	4.966	5.216	4.412	106.98	115.11	118.26	126.14	132.49	112.06
30/60	4.524	4.844	4.968	5.278	5.528	4.724	114.91	123.04	126.19	134.06	140.41	119.99
31/62*	4.680	5.000	5.124	5.434	5.684	4.880	118.87	127.00	130.15	138.02	144.37	123.95
36/72	5.460	5.780	5.904	6.214	6.464	5.660	138.68	146.81	149.96	157.84	164.19	143.76
43/86*	6.552	6.872	6.996	7.306	7.556	6.752	166.42	174.55	177.70	185.57	191.92	171.50
50/100*	7.644	7.964	8.088	8.398	8.648	7.844	194.16	202.29	205.44	213.31	219.66	199.24

* Consult Factory for availability.



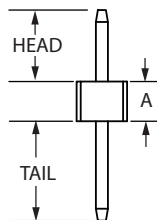
1.00 mm [.039"] Contact Centers, Male Headers/Straight/Right Angle/SMT-SMH Series Mates with SFM series

SPECIFICATIONS

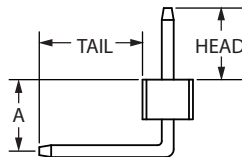
- 1 amp current rating
- UL Flammability Rating: 94V-0
- Insulator Material: Black LCP
- Contact Material: Phosphor Bronze
- Insulator Resistance: 1000 Mega OHMS Min.
- Contact Resistance: 20 Milli OHMS Max.
- Dielectric Withstanding: AC 300V
- Operating Temperature: -40°C to +125°C
- Processing Temperature: 260°C for 10 seconds Max.
- Stacker Options available - Consult factory



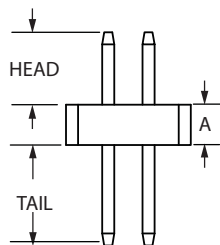
TERMINATION TYPE



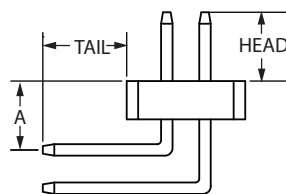
Straight, (ST)



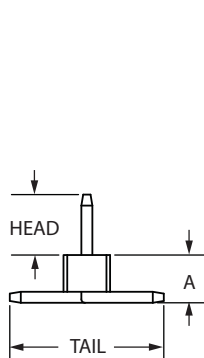
Right Angle, (RA)



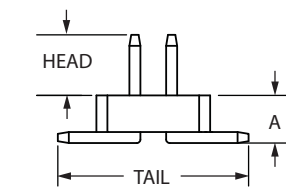
Straight, (ST)



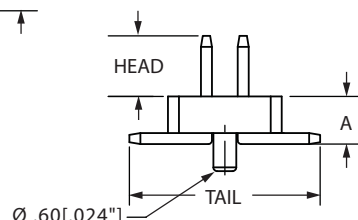
Right Angle, (RA)



SMT, (SC) or (SD)



SMT Without Guide Posts, (SM)



SMT With Guide Posts, (SP)

SINGLE ROW

EXAMPLE P/N	HEAD	TAIL	A
STRAIGHT TERMINATION			
SMH100-LPPE-S10-ST-BK	1.80 [.071"]	2.50 [.098"]	1.00 [.039"]
RIGHT ANGLE TERMINATION			
SMH100-LPPE-S10-RA-BK	1.80 [.071"]	2.60 [.102"]	1.80 [.071"]

DUAL ROW

EXAMPLE P/N	HEAD	TAIL	A
STRAIGHT TERMINATIONS			
SMH100-LPPE-D10-ST-BK	1.80 [.071"]	2.50 [.098"]	1.00 [.039"]
SMH150-LPPE-D10-ST-BK	1.80 [.071"]	2.50 [.098"]	1.50 [.059"]
RIGHT ANGLE TERMINATION			
SMH100-LPPE-D10-RA-BK	1.80 [.071"]	2.60 [.102"]	1.80 [.071"]

SURFACE MOUNT TERMINATIONS

EXAMPLE P/N	HEAD	TAIL	A
SINGLE ROW			
SMH100-LPPE-S10-SC-BK	1.65 [.065"]	4.20 [.165"]	1.30 [.051"]
SMH100-LPPE-S10-SD-BK	1.65 [.065"]	4.20 [.165"]	1.30 [.051"]
DUAL ROW			
SMH101-LPPE-D10-SM-BK	1.65 [.065"]	5.20 [.205"]	1.30 [.051"]
SMH101-LPPE-D10-SP-BK	1.65 [.065"]	5.20 [.205"]	1.30 [.051"]
SMH102-LPPE-D10-SM-BK	1.90 [.075"]	5.20 [.205"]	1.30 [.051"]
SMH102-LPPE-D10-SP-BK	1.90 [.075"]	5.20 [.205"]	1.30 [.051"]
SMH151-LPPE-D10-SM-BK	1.65 [.065"]	5.20 [.205"]	1.80 [.071"]
SMH151-LPPE-D10-SP-BK	1.65 [.065"]	5.20 [.205"]	1.80 [.071"]
SMH152-LPPE-D10-SM-BK	1.90 [.075"]	5.20 [.205"]	1.80 [.071"]
SMH152-LPPE-D10-SP-BK	1.90 [.075"]	5.20 [.205"]	1.80 [.071"]

1.00 mm [.039"] Contact Centers, Male Headers/Straight/Right Angle/SMT-SMH Series
Mates with SFM series

PART NUMBER OPTIONS

SMH100 - L P P E - S 10 - ST - BK

SERIES (See Opposite Page)

SMH100 = 1.00 mm [.039"] Profile, 1.80 mm [.071"] Head Height
SMH101 = 1.00 mm [.039"] Profile, 1.65 mm [.065"] Head Height
SMH102 = 1.00 mm [.039"] Profile, 1.90 mm [.075"] Head Height
SMH150 = 1.50 mm [.059"] Profile, 1.80 mm [.071"] Head Height
SMH151 = 1.50 mm [.059"] Profile, 1.65 mm [.065"] Head Height
SMH152 = 1.50 mm [.059"] Profile, 1.90 mm [.075"] Head Height

HOUSING MATERIAL

L = LCP

CONTACT MATERIAL

P = Phosphor Bronze

CONTACT FINISH - RoHS Compliant

P = Gold Flash Overall

S = 10u" Gold Overall

CONTACT CENTERS

E = 1.00 mm [.039"]

COLOR

BK = Black

TERMINATION TYPE (See Opposite Page)

ST = Straight (1 & 2 Row)

RA = Right Angle (1 & 2 Row)

SC = Surface Mount, Standard (1 Row)

SD = Surface Mount, Opposite Bend,

Applicable on Even pin Counts (1 Row)

SM = Surface Mount without Guide Posts (2 Row)

SP = Surface Mount with Guide Posts (2 Row)

NUMBER OF CONTACT POSITIONS (Pins per Row)

02 thru 50

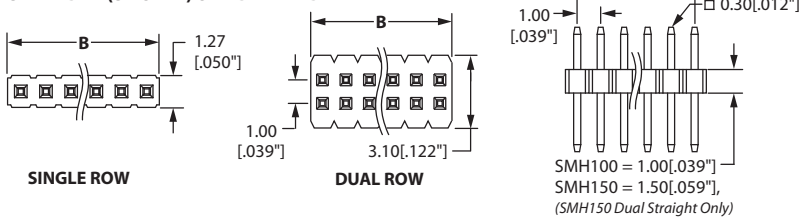
NUMBER OF ROWS

S = Single Row

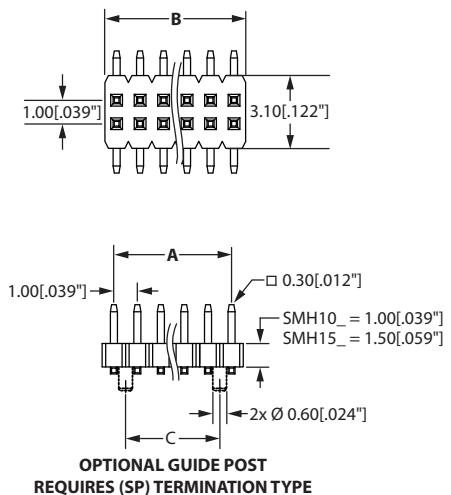
D = Dual Row

DIMENSIONS

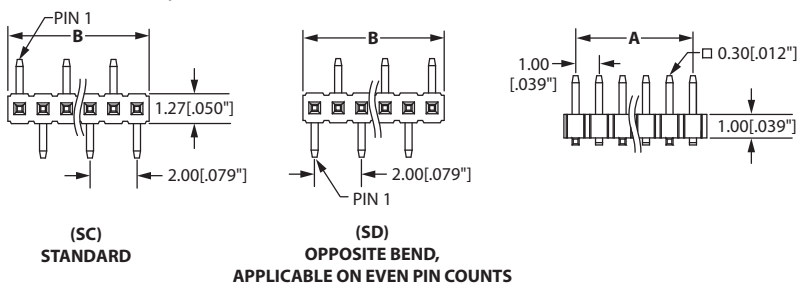
STRAIGHT (SHOWN) & RIGHT ANGLE



SURFACE MOUNT, DUAL ROW



SURFACE MOUNT, SINGLE ROW



Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C		Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		mm	[Inches]	mm	[Inches]	mm	[Inches]			mm	[Inches]	mm	[Inches]	mm	[Inches]
02*	02/04	1.00	0.039	2.00	0.079	N/A	N/A	26	26/52	25.00	0.984	26.00	1.024	24.00	0.945
03	03/06	2.00	0.079	3.00	0.118	1.00	0.039	27	27/54	26.00	1.024	27.00	1.063	25.00	0.984
04	04/08	3.00	0.118	4.00	0.157	2.00	0.079	28	28/56	27.00	1.063	28.00	1.102	26.00	1.024
05	05/10	4.00	0.157	5.00	0.197	3.00	0.118	29	29/58	28.00	1.102	29.00	1.142	27.00	1.063
06	06/12	5.00	0.197	6.00	0.236	4.00	0.157	30	30/60	29.00	1.142	30.00	1.181	28.00	1.102
07	07/14	6.00	0.236	7.00	0.276	5.00	0.197	31	31/62	30.00	1.181	31.00	1.220	29.00	1.142
08	08/16	7.00	0.276	8.00	0.315	6.00	0.236	32	32/64	31.00	1.220	32.00	1.260	30.00	1.181
09	09/18	8.00	0.315	9.00	0.354	7.00	0.276	33	33/66	32.00	1.260	33.00	1.299	31.00	1.220
10	10/20	9.00	0.354	10.00	0.394	8.00	0.315	34	34/68	33.00	1.299	34.00	1.339	32.00	1.260
11	11/22	10.00	0.394	11.00	0.433	9.00	0.354	35	35/70	34.00	1.339	35.00	1.378	33.00	1.299
12	12/24	11.00	0.433	12.00	0.472	10.00	0.394	36	36/72	35.00	1.378	36.00	1.417	34.00	1.339
13	13/26	12.00	0.472	13.00	0.512	11.00	0.433	37	37/74	36.00	1.417	37.00	1.457	35.00	1.378
14	14/28	13.00	0.512	14.00	0.551	12.00	0.472	38	38/76	37.00	1.457	38.00	1.496	36.00	1.417
15	15/30	14.00	0.551	15.00	0.591	13.00	0.512	39	39/78	38.00	1.496	39.00	1.535	37.00	1.457
16	16/32	15.00	0.591	16.00	0.630	14.00	0.551	40	40/80	39.00	1.535	40.00	1.575	38.00	1.496
17	17/34	16.00	0.630	17.00	0.669	15.00	0.591	41	41/82	40.00	1.575	41.00	1.614	39.00	1.535
18	18/36	17.00	0.669	18.00	0.709	16.00	0.630	42	42/84	41.00	1.614	42.00	1.654	40.00	1.575
19	19/38	18.00	0.709	19.00	0.748	17.00	0.669	43	43/86	42.00	1.654	43.00	1.693	41.00	1.614
20	20/40	19.00	0.748	20.00	0.787	18.00	0.709	44	44/88	43.00	1.693	44.00	1.732	42.00	1.654
21	21/42	20.00	0.787	21.00	0.827	19.00	0.748	45	45/90	44.00	1.732	45.00	1.772	43.00	1.693
22	22/44	21.00	0.827	22.00	0.866	20.00	0.787	46	46/92	45.00	1.772	46.00	1.811	44.00	1.732
23	23/46	22.00	0.866	23.00	0.906	21.00	0.827	47	47/94	46.00	1.811	47.00	1.850	45.00	1.772
24	24/48	23.00	0.906	24.00	0.945	22.00	0.866	48	48/96	47.00	1.850	48.00	1.890	46.00	1.811
25	25/50	24.00	0.945	25.00	0.984	23.00	0.906	49	49/98	48.00	1.890	49.00	1.929	47.00	1.850
								50	50/100	49.00	1.929	50.00	1.969	48.00	1.890

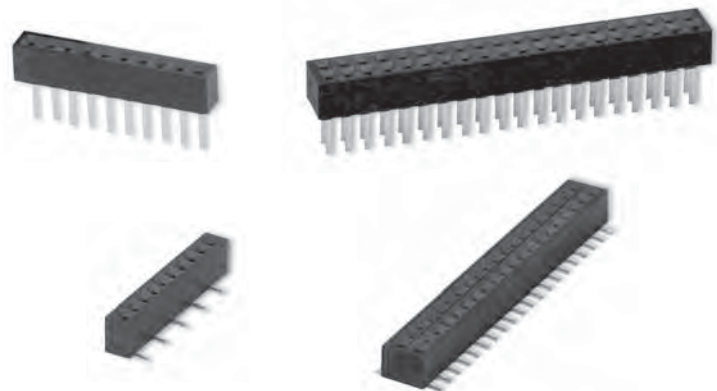
* Position 2 not available with Guide posts.



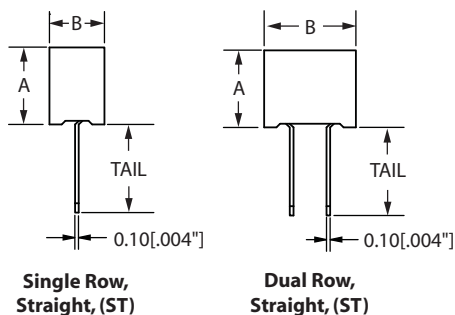
1.00 mm [.039"] Contact Centers, Female Headers, Straight/SMT- SFM Series Mates with SMH series

SPECIFICATIONS

- 1 amp current rating
- UL Flammability Rating: 94V-0
- Insulator Material: Black LCP
- Contact Material: Phosphor Bronze
- Contact Resistance: 20 Milli OHMS Max.
- Operating Temperature: -40°C to +125°C
- Processing Temperature: 260°C for 10 seconds Max.

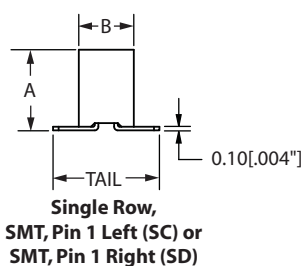


TERMINATION TYPE

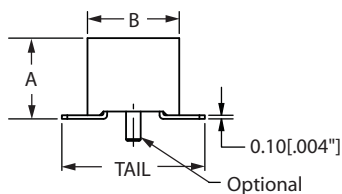


Single Row,
Straight, (ST)

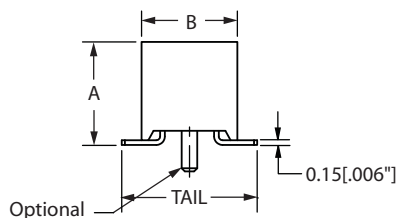
Dual Row,
Straight, (ST)



Single Row,
SMT, Pin 1 Left (SC) or
SMT, Pin 1 Right (SD)



SFM210-, Dual Row,
SMT Without Guide Posts (SM)
or SMT With Guide Posts (SP)



SFM315-, Dual Row,
SMT Without Guide Posts (SM)
or SMT With Guide Posts (SP)

STRAIGHT

EXAMPLE P/N	A	B	TAIL
SINGLE ROW			
SFM210-LPPE-S10-ST-BK	2.10 [.083"]	1.50 [.059"]	2.40 [.094"]
DUAL ROW			
SFM210-LPPE-D10-ST-BK	2.10 [.083"]	2.50 [.098"]	2.40 [.094"]

SURFACE MOUNT

EXAMPLE P/N	A	B	TAIL
SINGLE ROW			
SFM210-LPPE-S10-SC-BK	2.20 [.087"]	1.50 [.059"]	2.90 [.114"]
SFM210-LPPE-S10-SD-BK	2.20 [.087"]	1.50 [.059"]	2.90 [.114"]

SURFACE MOUNT

EXAMPLE P/N	A	B	TAIL
DUAL ROW			
SFM210-LPPE-D10-SM-BK	2.20 [.087"]	2.50 [.098"]	3.90 [.154"]
SFM210-LPPE-D10-SP-BK	2.20 [.087"]	2.50 [.098"]	3.90 [.154"]

SURFACE MOUNT

EXAMPLE P/N	A	B	TAIL
DUAL ROW			
SFM315-LPPE-D10-SM-BK	3.30 [.130"]	3.07 [.121"]	4.34 [.171"]
SFM315-LPPE-D10-SP-BK	3.30 [.130"]	3.07 [.121"]	4.34 [.171"]



1.00 mm [.039"] Contact Centers, Female Headers, Straight/SMT- SFM Series

Mates with SMH series

PART NUMBER OPTIONS

SFM210 - L P P E - S 10 - ST - BK

SERIES (See Opposite Page)

SFM210 = 2.10 mm [.083"] Profile
SFM315 = 3.15 mm [.124"] Profile

HOUSING MATERIAL

L = LCP

CONTACT MATERIAL

P = Phosphor Bronze

CONTACT FINISH - RoHS Compliant

P = Gold Flash Overall
S = 10u" Gold Overall, (Not Available on SFM315 series)
G = 10u" Gold on Contact Surface, Gold Flash on Termination, (Not Available on SFM210 series)

CONTACT CENTERS

E = 1.00 mm [.039"]

COLOR

BK = Black

TERMINATION TYPE (See Opposite Page)

ST = Straight (1 & 2 Row)
SC = Surface Mount, Standard (1 Row)
SD = Surface Mount, Opposite Bend, Applicable on Even pin Counts (1 Row)
SM = Surface Mount without Guide Posts (2 Row)
SP = Surface Mount with Guide Posts (2 Row)

NUMBER OF CONTACT POSITIONS (Pins per Row)

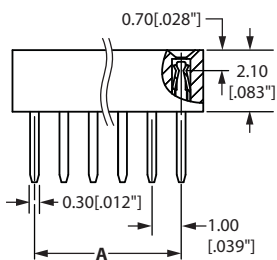
02 thru 50

NUMBER OF ROWS

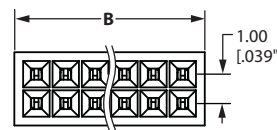
S = Single Row
D = Dual Row

DIMENSIONS

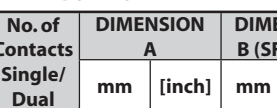
STRAIGHT



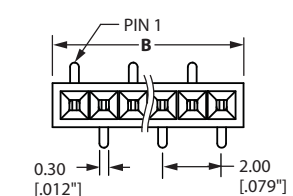
SINGLE ROW



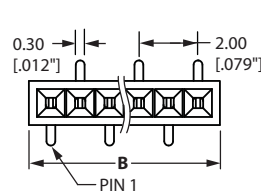
DUAL ROW



SURFACE MOUNT, SINGLE ROW

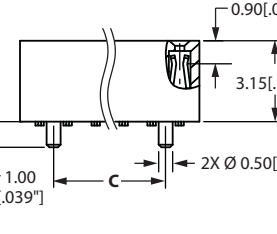
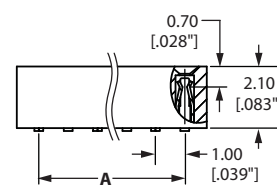
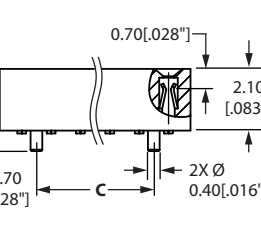
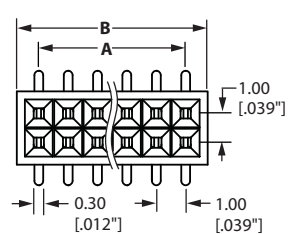


(SC) STANDARD



(SD) OPPOSITE BEND,
APPLICABLE ON EVEN PIN COUNTS

SURFACE MOUNT, DUAL ROW



SFM210-

SFM315-

OPTIONAL GUIDE POSTS REQUIRE (SP) TERMINATION TYPE

No. of Contacts Single/ Dual	DIMENSION A		DIMENSION B (SFM210)		DIMENSION B (SFM315)		DIMENSION C	
	mm	[inch]	mm	[inch]	mm	[inch]	mm	[inch]
02/04*	1.00	0.039	2.50	0.098	2.40	0.094	N/A	N/A
03/06	2.00	0.079	3.50	0.138	3.40	0.134	1.00	0.039
04/08	3.00	0.118	4.50	0.177	4.40	0.173	2.00	0.079
05/10	4.00	0.157	5.50	0.217	5.40	0.213	3.00	0.118
06/12	5.00	0.197	6.50	0.256	6.40	0.252	4.00	0.157
07/14	6.00	0.236	7.50	0.295	7.40	0.291	5.00	0.197
08/16	7.00	0.276	8.50	0.335	8.40	0.331	6.00	0.236
09/18	8.00	0.315	9.50	0.374	9.40	0.370	7.00	0.276
10/20	9.00	0.354	10.50	0.413	10.40	0.409	8.00	0.315
11/22	10.00	0.394	11.50	0.453	11.40	0.449	9.00	0.354
12/24	11.00	0.433	12.50	0.492	12.40	0.488	10.00	0.394
13/26	12.00	0.472	13.50	0.531	13.40	0.528	11.00	0.433
14/28	13.00	0.512	14.50	0.571	14.40	0.567	12.00	0.472
15/30	14.00	0.551	15.50	0.610	15.40	0.606	13.00	0.512
16/32	15.00	0.591	16.50	0.650	16.40	0.646	14.00	0.551
17/34	16.00	0.630	17.50	0.689	17.40	0.685	15.00	0.591
18/36	17.00	0.669	18.50	0.728	18.40	0.724	16.00	0.630
19/38	18.00	0.709	19.50	0.768	19.40	0.764	17.00	0.669
20/40**	19.00	0.748	20.50	0.807	20.40	0.803	18.00	0.709
21/42	20.00	0.787	21.50	0.846	21.40	0.843	19.00	0.748
22/44	21.00	0.827	22.50	0.886	22.40	0.882	20.00	0.787
23/46	22.00	0.866	23.50	0.925	23.40	0.921	21.00	0.827
24/48	23.00	0.906	24.50	0.965	24.40	0.961	22.00	0.866
25/50	24.00	0.945	25.50	1.004	25.40	1.000	23.00	0.906
26/52	25.00	0.984	26.50	1.043	26.40	1.039	24.00	0.945
27/54	26.00	1.024	27.50	1.083	27.40	1.079	25.00	0.984
28/56	27.00	1.063	28.50	1.122	28.40	1.118	26.00	1.024
29/58	28.00	1.102	29.50	1.161	29.40	1.157	27.00	1.063
30/60	29.00	1.142	30.50	1.201	30.40	1.197	28.00	1.102
31/62	30.00	1.181	31.50	1.240	31.40	1.236	29.00	1.142
32/64	31.00	1.220	32.50	1.280	32.40	1.276	30.00	1.181
33/66	32.00	1.260	33.50	1.319	33.40	1.315	31.00	1.220
34/68	33.00	1.299	34.50	1.358	34.40	1.354	32.00	1.260
35/70	34.00	1.339	35.50	1.398	35.40	1.394	33.00	1.299
36/72	35.00	1.378	36.50	1.437	36.40	1.433	34.00	1.339
37/74	36.00	1.417	37.50	1.476	37.40	1.472	35.00	1.378
38/76	37.00	1.457	38.50	1.515	38.40	1.512	36.00	1.417
39/78	38.00	1.496	39.50	1.555	39.40	1.551	37.00	1.457
40/80	39.00	1.535	40.50	1.594	40.40	1.591	38.00	1.496
41/82	40.00	1.575	41.50	1.634	41.40	1.630	39.00	1.535
42/84	41.00	1.614	42.50	1.673	42.40	1.669	40.00	1.575
43/86	42.00	1.654	43.50	1.713	43.40	1.709	41.00	1.614
44/88	43.00	1.693	44.50	1.752	44.40	1.748	42.00	1.654
45/90	44.00	1.732	45.50	1.791	45.40	1.787	43.00	1.693
46/92	45.00	1.772	46.50	1.831	46.40	1.827	44.00	1.732
47/94	46.00	1.811	47.50	1.870	47.40	1.866	45.00	1.772
48/96	47.00	1.850	48.50	1.909	48.40	1.906	46.00	1.811
49/98	48.00	1.890	49.50	1.949	49.40	1.945	47.00	1.850
50/100	49.00	1.929	50.50	1.988	50.40	1.984	48.00	1.890

* Position 2 not available with guide posts on SFM210 Series (Termination Type SP).

** Position 20 not available on SFM315 Series.



.050" [1.27 mm] Contact Centers, Male Header Dip Solder/Right Angle/SMT

SPECIFICATIONS

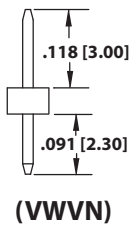
- Insulator Material: Nylon 9T
- Contact Material: Brass
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O
- Stacker Options available - Consult factory



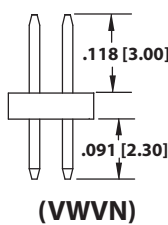
TERMINATION TYPE

SINGLE READOUT

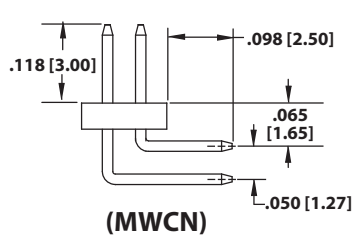
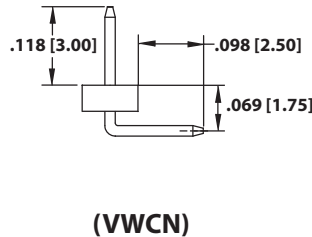
STRAIGHT



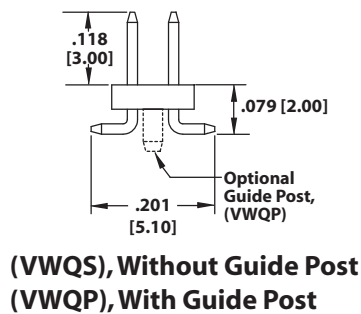
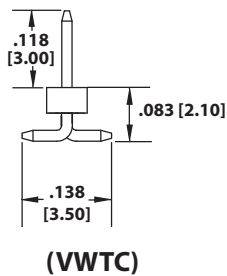
DUAL READOUT



RIGHT ANGLE

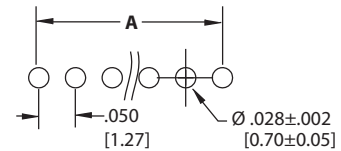


SURFACE MOUNT (SMT)

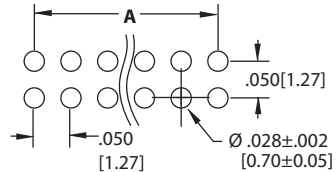


PCB LAYOUT

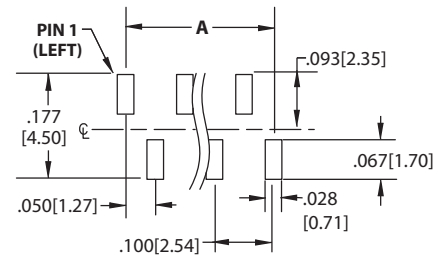
STRAIGHT (VWV) RIGHT ANGLE (VWC)



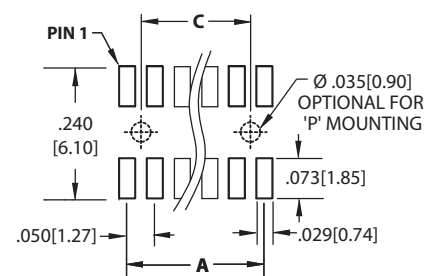
STRAIGHT (VWV) RIGHT ANGLE (MWC)



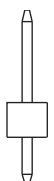
SURFACE MOUNT, PIN 1 LEFT (VWT)



SURFACE MOUNT (VWQ)



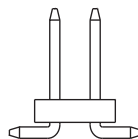
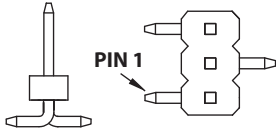
MOUNTING STYLE



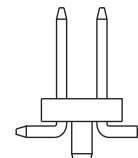
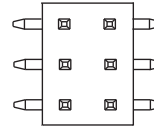
No Mounting,
(N)



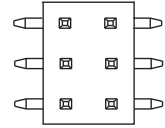
SMT, Pin 1 Left
(C)



SMT, Without Guide Post
(S)



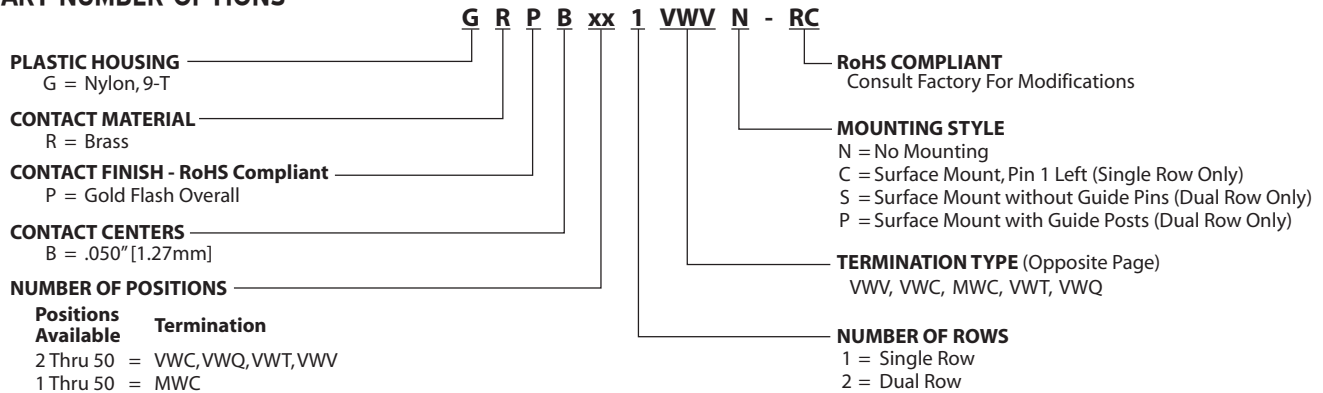
SMT, With Guide Post
(P)



.050" [1.27mm] Contact Centers, Male Header
Dip Solder/Right Angle/SMT



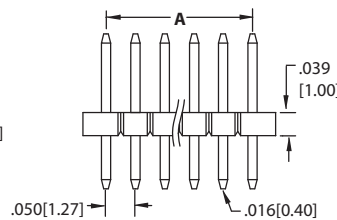
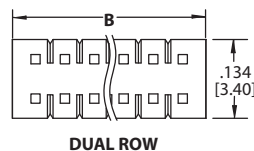
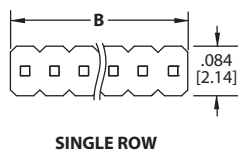
PART NUMBER OPTIONS



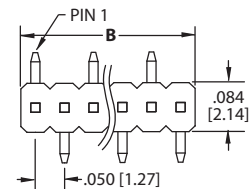
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

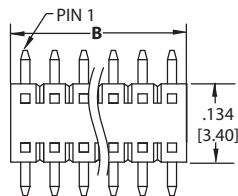
STRAIGHT (SHOWN) & RIGHT ANGLE



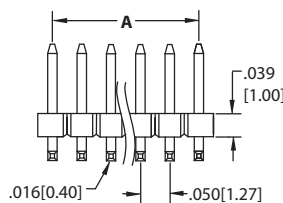
SURFACE MOUNT, PIN 1 LEFT, SINGLE ROW



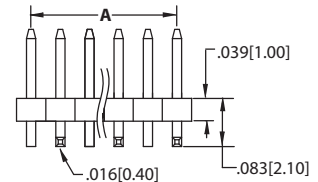
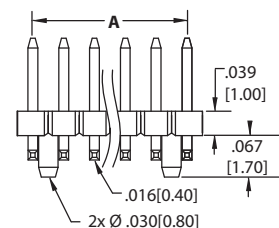
SURFACE MOUNT, DUAL ROW



WITHOUT GUIDE POST, (VWQS)



WITH GUIDE POST, (VWQP)



Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
01	01/02	.000	0.00	.050	1.27		
02	02/04	.050	1.27	.100	2.54		
03	03/06	.100	2.54	.150	3.81	.050	1.27
04	04/08	.150	3.81	.200	5.08	.100	2.54
05	05/10	.200	5.08	.250	6.35	.150	3.81
06	06/12	.250	6.35	.300	7.62	.200	5.08
07	07/14	.300	7.62	.350	8.89	.250	6.35
08	08/16	.350	8.89	.400	10.16	.300	7.62
09	09/18	.400	10.16	.450	11.43	.350	8.89
10	10/20	.450	11.43	.500	12.70	.400	10.16
11	11/22	.500	12.70	.550	13.97	.450	11.43
12	12/24	.550	13.97	.600	15.24	.500	12.70
13	13/26	.600	15.24	.650	16.51	.550	13.97
14	14/28	.650	16.51	.700	17.78	.600	15.24
15	15/30	.700	17.78	.750	19.05	.650	16.51
16	16/32	.750	19.05	.800	20.32	.700	17.78
17	17/34	.800	20.32	.850	21.59	.750	19.05
18	18/36	.850	21.59	.900	22.86	.800	20.32
19	19/38	.900	22.86	.950	24.13	.850	21.59
20	20/40	.950	24.13	1.000	25.40	.900	22.86
21	21/42	1.000	25.40	1.050	26.67	.950	24.13
22	22/44	1.050	26.67	1.100	27.94	1.000	25.40
23	23/46	1.100	27.94	1.150	29.21	1.050	26.67
24	24/48	1.150	29.21	1.200	30.48	1.100	27.94
25	25/50	1.200	30.48	1.250	31.75	1.150	29.21

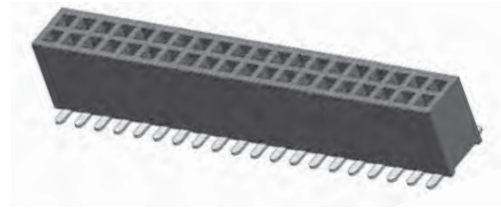
Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
26	26/52	1.250	31.75	1.300	33.02	1.200	30.48
27	27/54	1.300	33.02	1.350	34.29	1.250	31.75
28	28/56	1.350	34.29	1.400	35.56	1.300	33.02
29	29/58	1.400	35.56	1.450	36.83	1.350	34.29
30	30/60	1.450	36.83	1.500	38.10	1.400	35.56
31	31/62	1.500	38.10	1.550	39.37	1.450	36.83
32	32/64	1.550	39.37	1.600	40.64	1.500	38.10
33	33/66	1.600	40.64	1.650	41.91	1.550	39.37
34	34/68	1.650	41.91	1.700	43.18	1.600	40.64
35	35/70	1.700	43.18	1.750	44.45	1.650	41.91
36	36/72	1.750	44.45	1.800	45.72	1.700	43.18
37	37/74	1.800	45.72	1.850	46.99	1.750	44.45
38	38/76	1.850	46.99	1.900	48.26	1.800	45.72
39	39/78	1.900	48.26	1.950	49.53	1.850	46.99
40	40/80	1.950	49.53	2.000	50.80	1.900	48.26
41	41/82	2.000	50.80	2.050	52.07	1.950	49.53
42	42/84	2.050	52.07	2.100	53.34	2.000	50.80
43	43/86	2.100	53.34	2.150	54.61	2.050	52.07
44	44/88	2.150	54.61	2.200	55.88	2.100	53.34
45	45/90	2.200	55.88	2.250	57.15	2.150	54.61
46	46/92	2.250	57.15	2.300	58.42	2.200	55.88
47	47/94	2.300	58.42	2.350	59.69	2.250	57.15
48	48/96	2.350	59.69	2.400	60.96	2.300	58.42
49	49/98	2.400	60.96	2.450	62.23	2.350	59.69
50	50/100	2.450	62.23	2.500	63.50	2.400	60.96



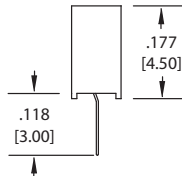
.050" [1.27 mm] Contact Centers, Female Header Dip Solder/Right Angle/SMT

SPECIFICATIONS

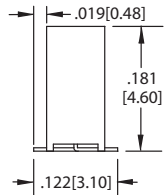
- Insulator Material: L.C.P.
- Contact Material: Phosphor Bronze
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O



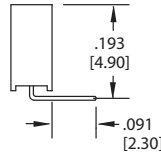
TERMINATION TYPE



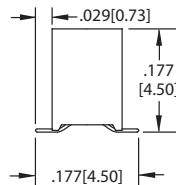
**SINGLE ROW,
STRAIGHT
(NFFN)**



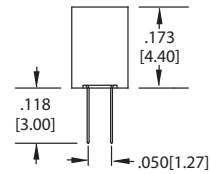
**SINGLE ROW,
SMT
(NFSC)**



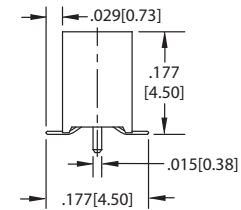
**SINGLE ROW,
RIGHT ANGLE
(NGCN)**



**DUAL ROW,
SMT Without Guide Posts
(NFSS)**

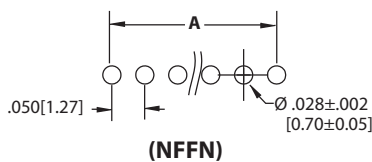


**DUAL ROW,
STRAIGHT
(CFFN)**

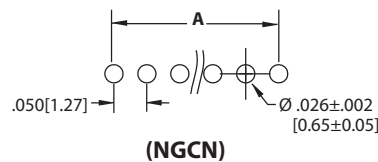


**DUAL ROW,
SMT With Guide Posts
(NFSP)**

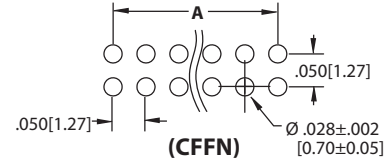
PCB LAYOUT



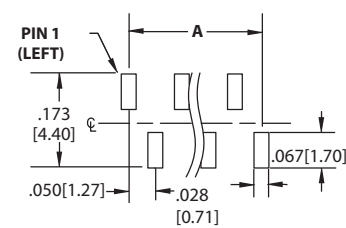
(NFFN)



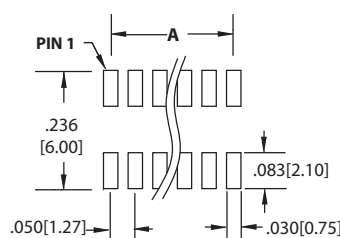
(NGCN)



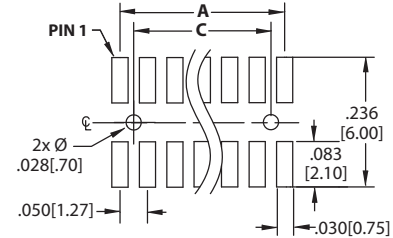
(CFFN)



(NFSC)

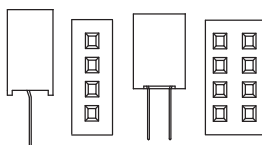


(NFSS)

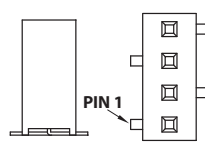


(NFSP)

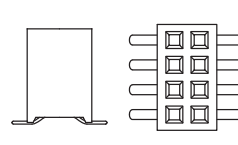
MOUNTING STYLE



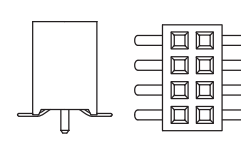
**SINGLE & DUAL ROW
NO MOUNTING
(N)**



**SINGLE ROW
SMT, Pin 1 Left
(C)**



**DUAL ROW
SMT Without Guide Post
(S)**

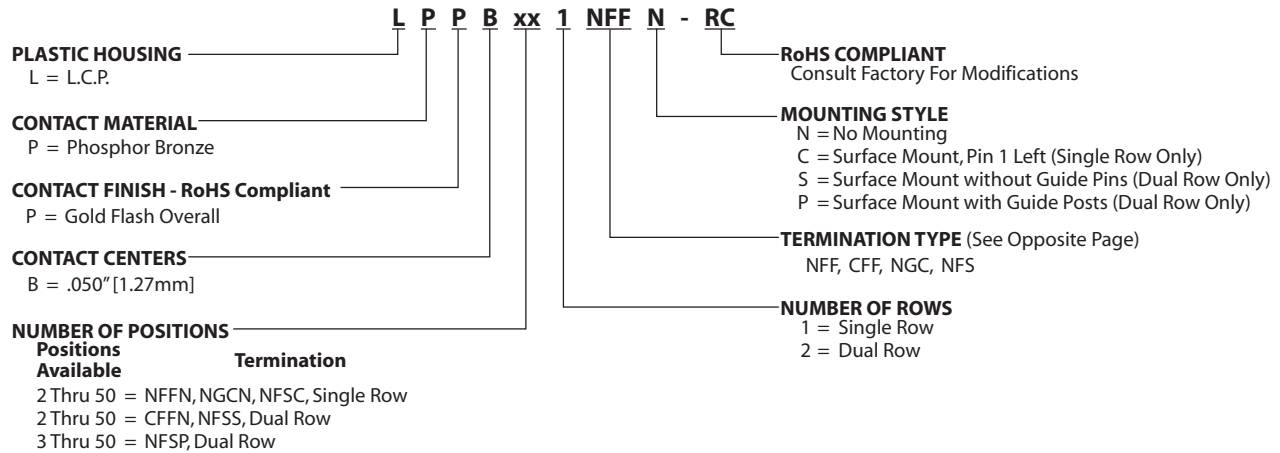


**DUAL ROW
SMT With Guide Post
(P)**

.050" [1.27 mm] Contact Centers, Female Header
Dip Solder/Right Angle/SMT

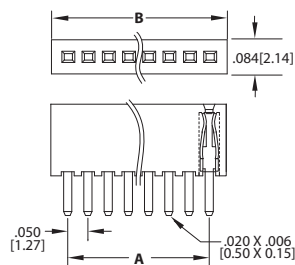


PART NUMBER OPTIONS

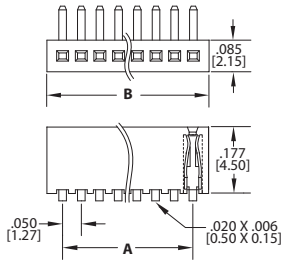


DIMENSIONS

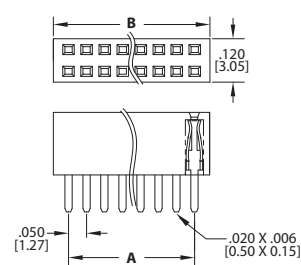
Dimensions in [] are in millimeters, all others are in inches.



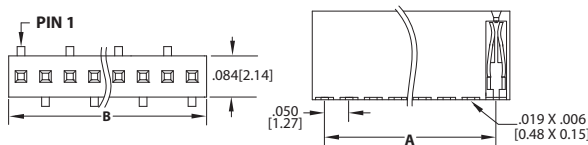
STRAIGHT, SINGLE ROW



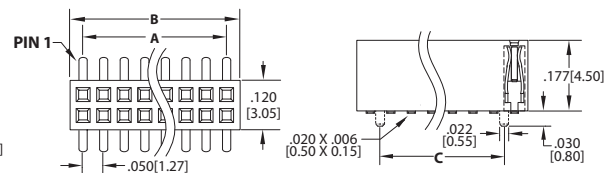
RIGHT ANGLE, SINGLE ROW



STRAIGHT, DUAL ROW



SMT, PIN 1 LEFT, SINGLE ROW



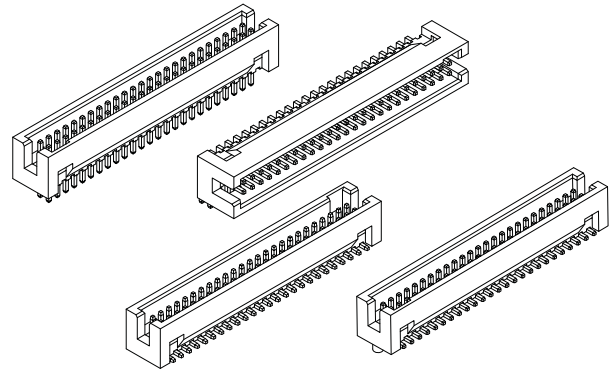
SMT With or Without Guide Post, DUAL ROW

Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
02	2/4	.050	1.27	.115	2.92		
03	3/6	.100	2.54	.165	4.19	.050	1.27
04	4/8	.150	3.81	.215	5.46	.100	2.54
05	5/10	.200	5.08	.265	6.73	.150	3.81
06	6/12	.250	6.35	.315	8.00	.200	5.08
07	7/14	.300	7.62	.365	9.27	.250	6.35
08	8/16	.350	8.89	.415	10.54	.300	7.62
09	9/18	.400	10.16	.465	11.81	.350	8.89
10	10/20	.450	11.43	.515	13.08	.400	10.16
11	11/22	.500	12.70	.565	14.35	.450	11.43
12	12/24	.550	13.97	.615	15.62	.500	12.70
13	13/26	.600	15.24	.665	16.89	.550	13.97
14	14/28	.650	16.51	.715	18.16	.600	15.24
15	15/30	.700	17.78	.765	19.43	.650	16.51
16	16/32	.750	19.05	.815	20.70	.700	17.78
17	17/34	.800	20.32	.865	21.97	.750	19.05
18	18/36	.850	21.59	.915	23.24	.800	20.32
19	19/38	.900	22.86	.965	24.51	.850	21.59
20	20/40	.950	24.13	1.015	25.78	.900	22.86
21	21/42	1.000	25.40	1.065	27.05	.950	24.13
22	22/44	1.050	26.67	1.115	28.32	1.000	25.40
23	23/46	1.100	27.94	1.165	29.59	1.050	26.67
24	24/48	1.150	29.21	1.215	30.86	1.100	27.94
25	25/50	1.200	30.48	1.265	32.13	1.150	29.21

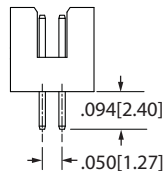
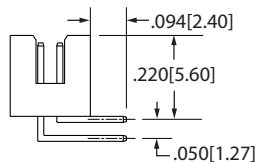
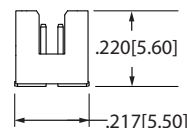
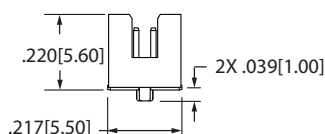
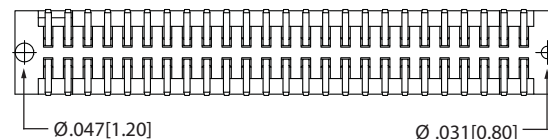
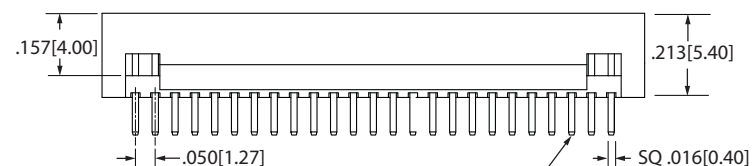
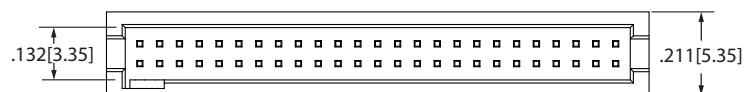
Positions	Number of Contacts Single/Dual	DIMENSION A		DIMENSION B		DIMENSION C	
		Inches	[mm]	Inches	[mm]	Inches	[mm]
26	26/52	1.250	31.75	1.315	33.40	1.200	30.48
27	27/54	1.300	33.02	1.365	34.67	1.250	31.75
28	28/56	1.350	34.29	1.415	35.94	1.300	33.02
29	29/58	1.400	35.56	1.465	37.21	1.350	34.29
30	30/60	1.450	36.83	1.515	38.48	1.400	35.56
31	31/62	1.500	38.10	1.565	39.75	1.450	36.83
32	32/64	1.550	39.37	1.615	41.02	1.500	38.10
33	33/66	1.600	40.64	1.665	42.29	1.550	39.37
34	34/68	1.650	41.91	1.715	43.56	1.600	40.64
35	35/70	1.700	43.18	1.765	44.83	1.650	41.91
36	36/72	1.750	44.45	1.815	46.10	1.700	43.18
37	37/74	1.800	45.72	1.865	47.37	1.750	44.45
38	38/76	1.850	46.99	1.915	48.64	1.800	45.70
39	39/78	1.900	48.26	1.965	49.91	1.850	46.99
40	40/80	1.950	49.53	2.015	51.18	1.900	48.26
41	41/82	2.000	50.80	2.065	52.45	1.950	49.53
42	42/84	2.050	52.07	2.115	53.72	2.000	50.80
43	43/86	2.100	53.34	2.165	54.99	2.050	52.07
44	44/88	2.150	54.61	2.215	56.26	2.100	53.34
45	45/90	2.200	55.88	2.265	57.53	2.150	54.61
46	46/92	2.250	57.15	2.315	58.80	2.200	55.88
47	47/94	2.300	58.42	2.365	60.07	2.250	57.15
48	48/96	2.350	59.69	2.415	61.34	2.300	58.42
49	49/98	2.400	60.96	2.465	62.61	2.350	59.69
50	50/100	2.450	62.23	2.515	63.88	2.400	60.96

**.050" [1.27mm] Contact Centers, Shrouded (Box) Headers/Straight/Right Angle/SMT
With or Without Post- SBH Series****Mates with SFH31 series (See opposite page)****SPECIFICATIONS**

- Polarizing Notch
- Operating Temperature: - 40° C to + 85° C
- Processing Temperature: 230° C for 60 seconds Max.
(260° C, 10 seconds)
- UL Flammability Rating: 94V-0
- Voltage Rating: 20m OHMs Max.
- Current Rating: 1 AMP per contact
- Voltage Drop: AC 500 V.
- Insulation Resistance: 1000 Mega OHMS

**PART NUMBER OPTIONS**

SERIES	SBH31 - N B P B - D 10 - ST - BK	COLOR
SBH31 = Box Header with Centered Polarizing Notch		BK = Black Other Color Options Available (Consult Factory)
HOUSING MATERIAL		TERMINATION TYPE
N = Nylon 6T		ST = Straight RA = Right Angle SM = Surface Mount SP = Surface Mount with Post
CONTACT MATERIAL		NUMBER OF CONTACT POSITIONS (Pins per Row)
B = Brass		05 thru 50
CONTACT FINISH - RoHS Compliant		NUMBER OF ROWS
P = Gold Flash Overall		D = Dual Row
CONTACT CENTERS		
B = .050" [1.27mm]		

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com**STRAIGHT (ST)****Example P/N: SBH31-NBPPB-D20-ST-BK****RIGHT ANGLE (RA)****Example P/N: SBH31-NBPPB-D20-RA-BK****SURFACE MOUNT (SM)****Example P/N: SBH31-NBPPB-D20-SM-BK****SURFACE MOUNT with POST (SP)****Example P/N: SBH31-NBPPB-D20-SP-BK**

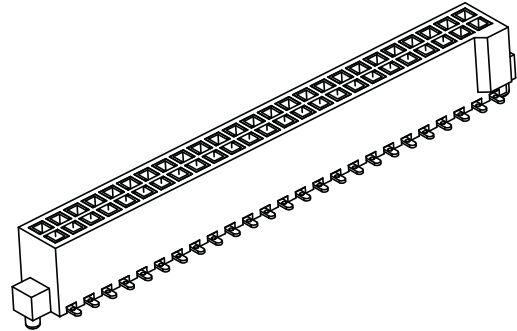
Surface Mount with Post (SP) Only



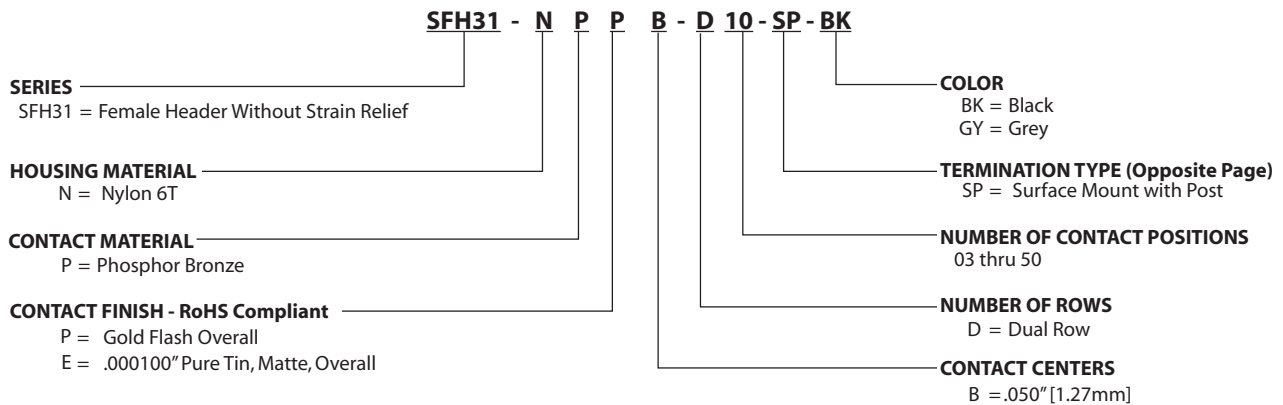
.050" [1.27mm] Contact Centers, Female Header, SMT with Posts- SFH Series
Mates with SBH31 series (See opposite page)

SPECIFICATIONS

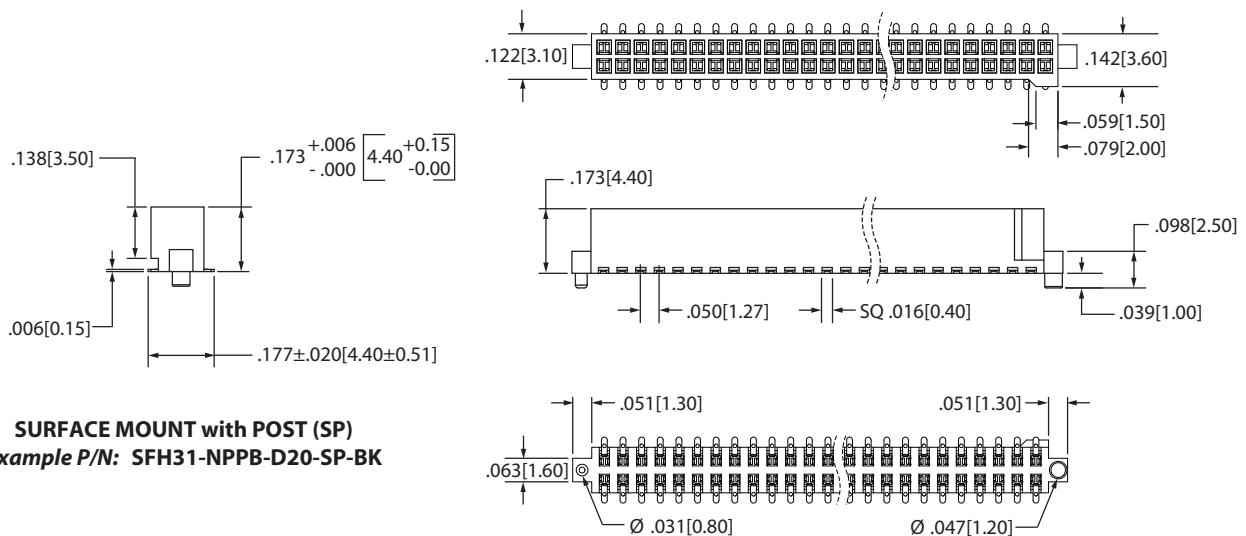
- Operating Temperature: - 40° C to + 85° C
- Processing Temperature: 230° C for 60 seconds Max.
(260° C, 10 seconds)
- UL Flammability Rating: 94V-0
- Voltage Rating: 20m OHMs Max.
- Current Rating: 3 AMP per contact
- Dielectric Withstanding: 500 VAC
- Insulation Resistance: 1000 Mega OHMS



PART NUMBER OPTIONS

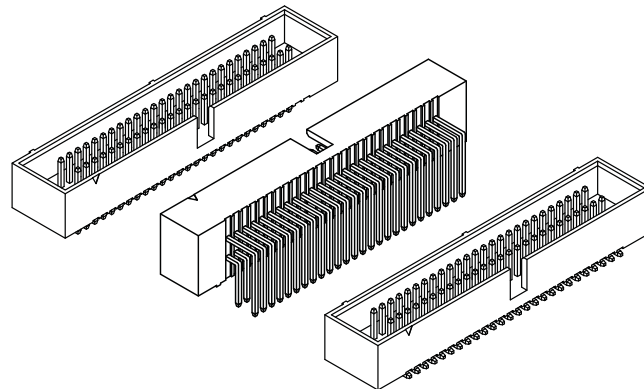


DIMENSIONS For complete drawings, go to www.sullincorp.com or e-mail techsupport@sullincorp.com

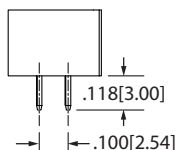


**.050" [1.27mm] Contact Centers Shrouded (Box) Headers, .100" [2.54] Row Spacing
Straight/Right Angle/SMT With or Without Post- SBH Series***Mates with SFH41 series (See opposite page)***SPECIFICATIONS**

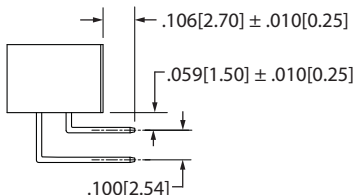
- **Centered Polarizing Notch**
- Operating Temperature: - 40° C to + 85° C
- Processing Temperature: 230° C for 60 seconds Max.
(260° C, 10 seconds)
- UL Flammability Rating: 94V-0
- Voltage Rating: 20m OHMs Max.
- Current Rating: 1 AMP per contact
- Voltage Drop: AC 500 V.
- Insulation Resistance: 1000 Mega OHMS

**PART NUMBER OPTIONS**

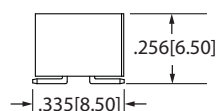
SERIES	SBH41	N	B	P	B	D	10	ST	BK	COLOR
SBH41 = Box Header with Centered Polarizing Notch										BK = Black Other Color Options Available (Consult Factory)
HOUSING MATERIAL										TERMINATION TYPE
N = Nylon 6T										ST = Straight RA = Right Angle SM = Surface Mount SP = Surface Mount with Post
CONTACT MATERIAL										NUMBER OF CONTACT POSITIONS (Pins per Row)
B = Brass										05 thru 50
CONTACT FINISH - RoHS Compliant										NUMBER OF ROWS
P = Gold Flash Overall										D = Dual Row
CONTACT CENTERS										
B = .050" [1.27mm]										

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com**STRAIGHT (ST)**

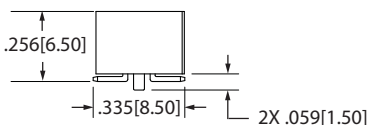
Example P/N: SBH41-NBPB-D20-ST-BK

**RIGHT ANGLE (RA)**

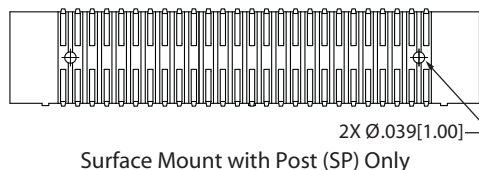
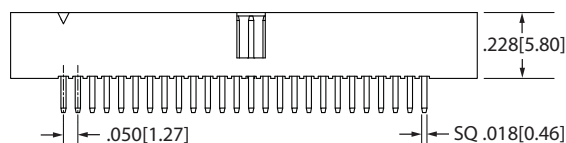
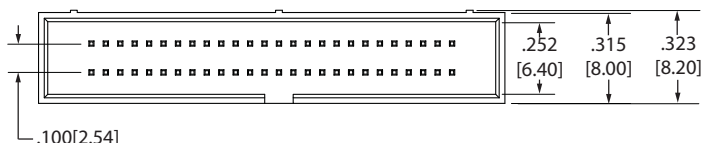
Example P/N: SBH41-NBPB-D20-RA-BK

**SURFACE MOUNT (SM)**

Example P/N: SBH41-NBPB-D20-SM-BK

**SURFACE MOUNT with POST (SP)**

Example P/N: SBH41-NBPB-D20-SP-BK



Surface Mount with Post (SP) Only



.050" [1.27mm] Contact Centers, IDC Sockets, .100" [2.54] Row Spacing
Insulation Displacement With or Without Strain Relief - SFH Series
Mates with SBH41 series (See opposite page)

SPECIFICATIONS

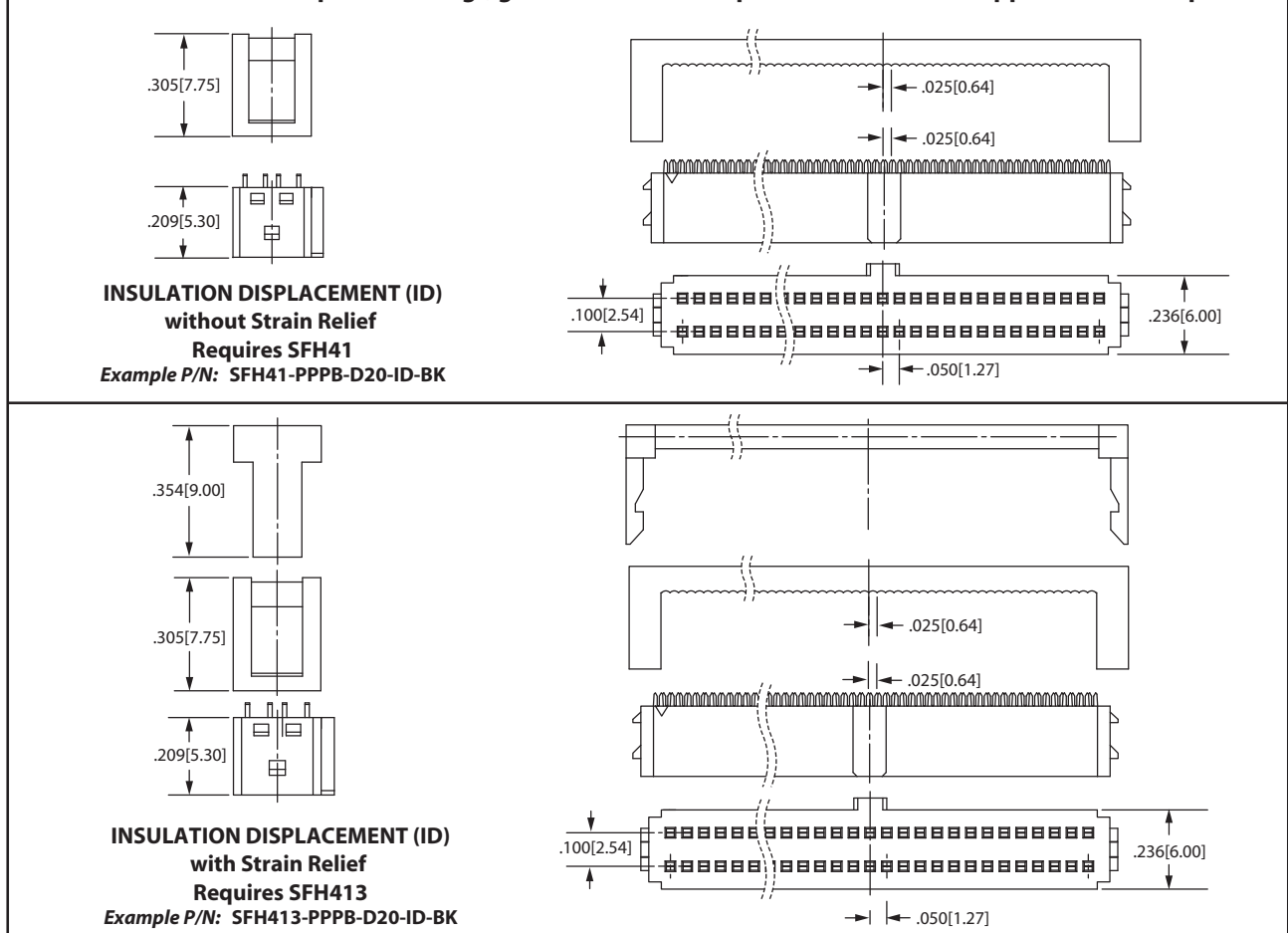
- **Centered Polarizing Key**
- Operating Temperature: - 40° C to + 105° C
- UL Flammability Rating: 94V-0
- Contact Resistance: 30 MEGA OHMS Max.
- Current Rating: 1 AMP per contact
- Dielectric Withstanding: 500 VAC R.M.S. for One Minute
- Insulation Resistance: 500 Mega OHMS



PART NUMBER OPTIONS

SERIES	SFH41 - P P P B - D 10 - ID - BK	COLOR
SFH41 = IDC Socket Without Strain Relief, .050" [1.27mm] Contact Centers		BK = Black GY = Grey
SFH413 = IDC Socket With Strain Relief, .050" [1.27mm] Contact Centers		TERMINATION TYPE (Opposite Page) ID = Insulation Displacement
HOUSING MATERIAL		NUMBER OF CONTACT POSITIONS 05, 08, 10, 13, 15, 17, 20, 25, 30, 34, 40, 50
P = PBT		NUMBER OF ROWS D = Dual Row
CONTACT MATERIAL		CONTACT CENTERS B = .050" [1.27mm]
P = Phosphor Bronze		
CONTACT FINISH - RoHS Compliant		
P = Gold Flash Overall		
E = .000100" Pure Tin, Matte, Overall		
V = Gold Flash on Contact Surface, Nickel Underplate on Tails		

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com





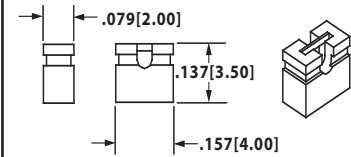
.079" [2 mm] Contact Centers, Male Header Dip Solder/Right Angle/SMT

SPECIFICATIONS

- 1 amp current rating per contact (4 amp for 4 row only)
- UL Flammability Rating: 94V-O
- Insulator: Nylon 6-T
- Contact Material: Brass
- Stacker Options available - Consult Factory

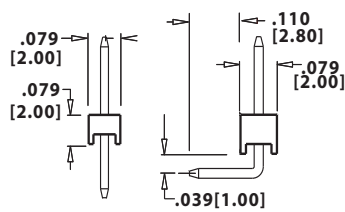


JUMPERS

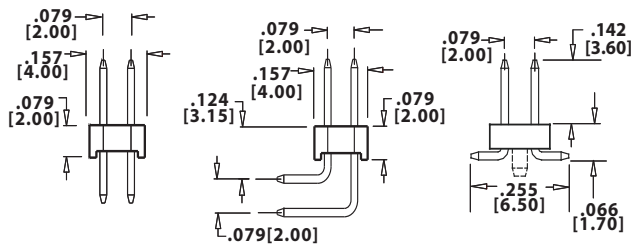


PART NUMBER:
SPN02SYBN-RC (GOLD FLASH)
STN02SYBN-RC (TIN PLATE)

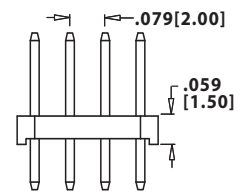
READOUT



SINGLE (1)

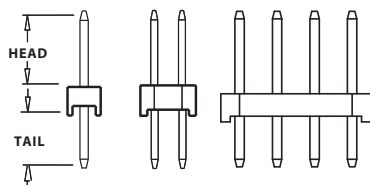


DUAL (2)

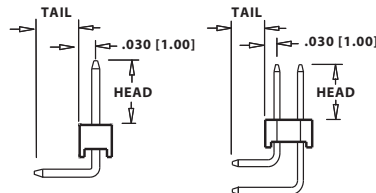


QUAD (4)

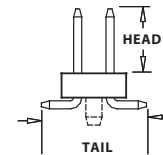
TERMINATION TYPE



STRAIGHT



RIGHT ANGLE



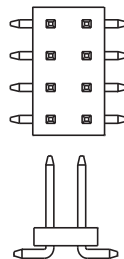
SMT

P/N CODE	ROWS	TERM	HEAD	TAIL	P/N CODE	ROWS	TERM	HEAD	TAIL	P/N CODE	ROWS	TERM	HEAD	TAIL
PAE	1	STRAIGHT	.142" [3.60]	.110" [2.80]	PAR	1	RIGHT ANGLE	.142" [3.60]	.110" [2.80]					
PAE	2	STRAIGHT	.142" [3.60]	.110" [2.80]	PAR	2	RIGHT ANGLE	.142" [3.60]	.110" [2.80]	MAM	2	SMT	.142" [3.60]	.255" [6.50]
RCC	4	STRAIGHT	.173" [4.40]	.094" [2.40]										

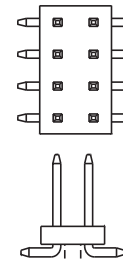
MOUNTING STYLE



No Mounting-
Default Standard (N)



Two Row SMT,
Without Guide Post (S)

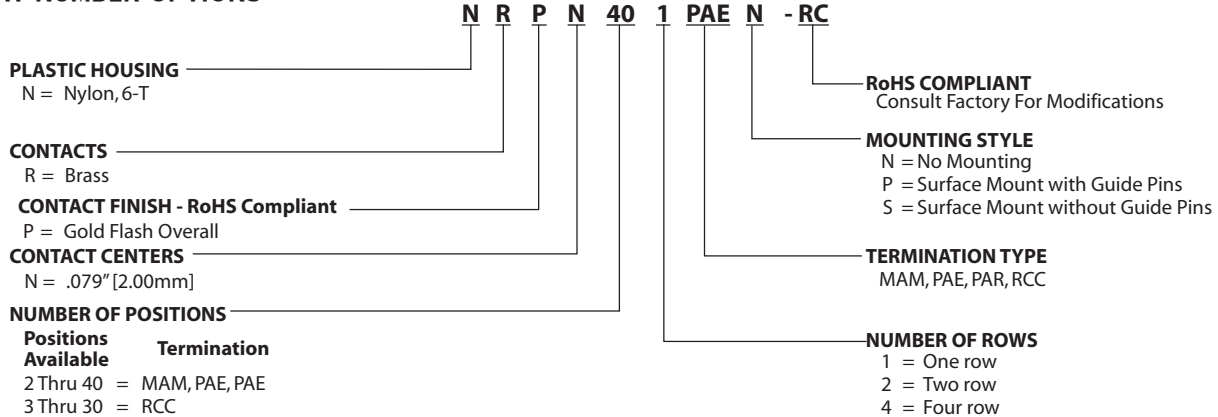


Two Row SMT,
With Guide Post (P)



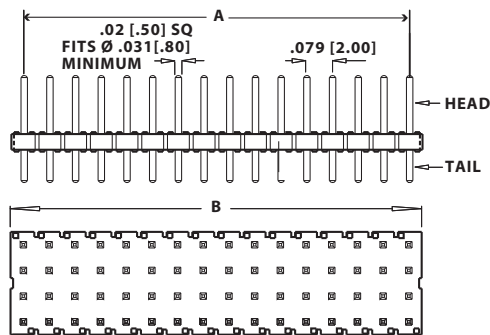
.079" [2 mm] Contact Centers, Male Header **Dip Solder/Right Angle/SMT**

PART NUMBER OPTIONS

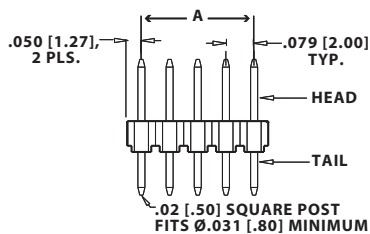


DIMENSIONS

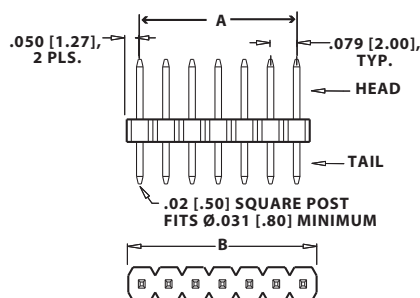
Dimensions in [] are in millimeters, all others are in inches.



**QUAD READOUT,
STRAIGHT TAIL SHOWN**



**DUAL READOUT,
STRAIGHT TAIL SHOWN**



**SINGLE READOUT,
STRAIGHT TAIL SHOWN**

PART NUMBER	NUMBER OF CONTACTS SINGLE/ DUAL/QUAD	DIMENSION A		DIMENSION B	
		INCHES	[MM]	INCHES	[MM]
_ RPN02 ___ N-RC	02/04	0.079	2.00	0.157	4.00
_ RPN03 ___ N-RC	03/06/12	0.157	4.00	0.236	6.00
_ RPN04 ___ N-RC	04/08/16	0.236	6.00	0.315	8.00
_ RPN05 ___ N-RC	05/10/20	0.315	8.00	0.394	10.00
_ RPN06 ___ N-RC	06/12/24	0.394	10.00	0.472	12.00
_ RPN07 ___ N-RC	07/14/28	0.472	12.00	0.551	14.00
_ RPN08 ___ N-RC	08/16/32	0.551	14.00	0.630	16.00
_ RPN09 ___ N-RC	09/18/36	0.630	16.00	0.709	18.00
_ RPN10 ___ N-RC	10/20/40	0.709	18.00	0.787	20.00
_ RPN11 ___ N-RC	11/22/44	0.787	20.00	0.866	22.00
_ RPN12 ___ N-RC	12/24/48	0.866	22.00	0.945	24.00
_ RPN13 ___ N-RC	13/26/52	0.945	24.00	1.024	26.00
_ RPN14 ___ N-RC	14/28/56	1.024	26.00	1.102	28.00
_ RPN15 ___ N-RC	15/30/60	1.102	28.00	1.181	30.00
_ RPN16 ___ N-RC	16/32/64	1.181	30.00	1.260	32.00
_ RPN17 ___ N-RC	17/34/68	1.260	32.00	1.339	34.00
_ RPN18 ___ N-RC	18/36/72	1.339	34.00	1.417	36.00
_ RPN19 ___ N-RC	19/38/76	1.417	36.00	1.496	38.00
_ RPN20 ___ N-RC	20/40/80	1.496	38.00	1.575	40.00
_ RPN21 ___ N-RC	21/42/84	1.575	40.00	1.654	42.00
_ RPN22 ___ N-RC	22/44/88	1.654	42.00	1.732	44.00
_ RPN23 ___ N-RC	23/46/92	1.732	44.00	1.811	46.00
_ RPN24 ___ N-RC	24/48/96	1.811	46.00	1.890	48.00
_ RPN25 ___ N-RC	25/50/100	1.890	48.00	1.969	50.00
_ RPN26 ___ N-RC	26/52/104	1.969	50.00	2.047	52.00
_ RPN27 ___ N-RC	27/54/108	2.047	52.00	2.126	54.00
_ RPN28 ___ N-RC	28/56/112	2.126	54.00	2.205	56.00
_ RPN29 ___ N-RC	29/58/116	2.205	56.00	2.283	58.00
_ RPN30 ___ N-RC	30/60/120	2.283	58.00	2.362	60.00
_ RPN31 ___ N-RC	31/62	2.362	60.00	2.441	62.00
_ RPN32 ___ N-RC	32/64	2.441	62.00	2.520	64.00
_ RPN33 ___ N-RC	33/66	2.520	64.00	2.598	66.00
_ RPN34 ___ N-RC	34/68	2.598	66.00	2.677	68.00
_ RPN35 ___ N-RC	35/70	2.677	68.00	2.756	70.00
_ RPN36 ___ N-RC	36/72	2.756	70.00	2.835	72.00
_ RPN37 ___ N-RC	37/74	2.835	72.00	2.913	74.00
_ RPN38 ___ N-RC	38/76	2.913	74.00	2.992	76.00
_ RPN39 ___ N-RC	39/78	2.992	76.00	3.071	78.00
_ RPN40 ___ N-RC	40/80	3.071	78.00	3.150	80.00



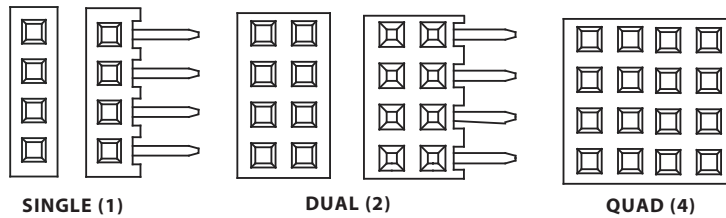
.079" [2 mm] Contact Centers, Female Header
Dip Solder/Right Angle/SMT

SPECIFICATIONS

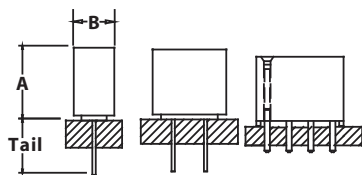
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Black Thermoplastic Polyester/Nylon 6-T
- Contact Material: Phosphor Bronze



READOUT

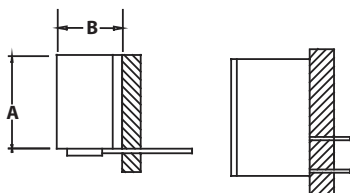


TERMINATION TYPE



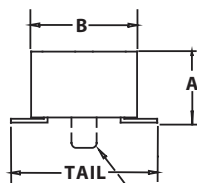
STRAIGHT

P/N CODE	ROWS	TERM	A	B	TAIL
BFC	1	STRAIGHT	.173 [4.40]	.094 [2.40]	.094 [2.40]
AFC	2	STRAIGHT	.170 [4.30]	.157 [4.00]	.094 [2.40]
AFE	2	STRAIGHT	1.70 [4.30]	.157 [4.00]	.110 [2.80]
EFC	4	STRAIGHT	.248 [6.30]	.315 [8.00]	.094 [2.40]



RIGHT ANGLE

P/N CODE	ROWS	TERM	A	B	TAIL
FGG	1	RIGHT ANGLE	.169 [4.30]	.110 [2.80]	.122 [3.10]
FJF	2	RIGHT ANGLE	.285 [7.20]	.191 [4.85]	.118 [3.00]



SMT

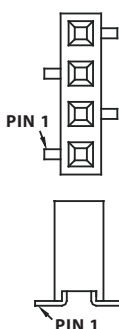
P/N CODE	ROWS	TERM	A	B	TAIL
BFL	1	SMT	.181 [4.60]	.094 [2.40]	.157 [4.00]
GFN	2	SMT	.110 [2.80]	.165 [4.20]	.228 [5.80]
GHN	Replaced by GFN				
FFK	2	SMT	.173 [4.40]	.157 [4.00]	.228 [5.80]

Refer to Mounting Style

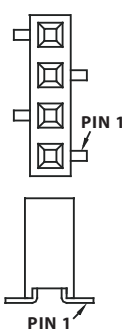
MOUNTING STYLE



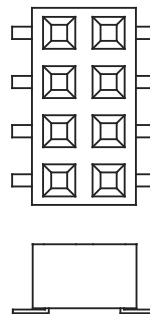
**No Mounting-
Standard (N)**



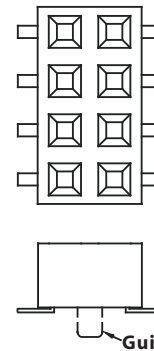
**One Row SMT,
Pin 1 Left (C)**



**One Row SMT,
Pin 1 Right (D)**



**Two Row SMT,
Without Guide Posts (S)**



**Two Row SMT,
With Guide Post (P)**

**.079" [2 mm] Contact Centers, Female Header
Dip Solder/Right Angle/SMT**



PART NUMBER OPTIONS

NP P N 40 1 BFC N - RC

PLASTIC HOUSING
NP = Nylon 6-T/Phosphor Bronze

CONTACT FINISH - RoHS Compliant
Contact Termination
P = Gold Flash Gold Flash (For 1 and 2 Row)
R = .000020" Gold .000100" Tin (For 4 row)

CONTACT CENTERS
N = .079" [2.00mm]

NUMBER OF POSITIONS
Positions Available
2 Thru 40 = AFC, AFE, BFL, FFK, FGG, FJF
3 Thru 40 = BFC, GFN
5 Thru 30 = EFC

NUMBER OF ROWS (Opposite Page)
1 = One Row
2 = Two Row
4 = Four Row

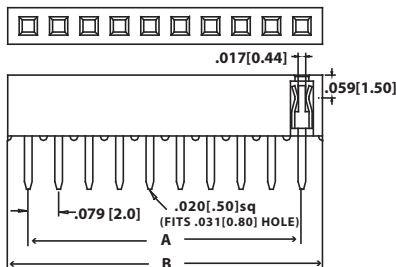
RoHS COMPLIANT
Consult Factory For Modifications

MOUNTING STYLE
N = No Mounting
C = SMT, Single row female, pin 1 Left
D = SMT, Single row female, pin 1 Right
P = Surface mount with guide pins
S = Surface mount without guide pins

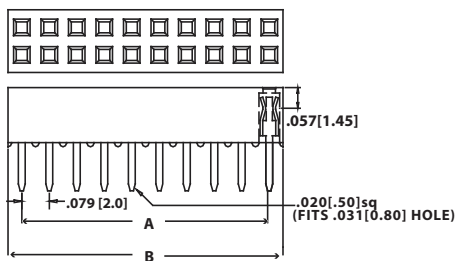
TERMINATION TYPE (Opposite Page)
AFC = Thru Hole Top Entry
AFE = Thru Hole Top Entry/Closed Bottom
BFC = Thru Hole Top Entry
EFC = Thru Hole Top Entry
FGG = R/A Top Entry
FJF = R/A Top Entry
BFL = SMT Top Entry
FFK = SMT Top Entry
GFN = SMT Top/Bottom Entry
GHN = SMT Replaced by GFN

DIMENSIONS

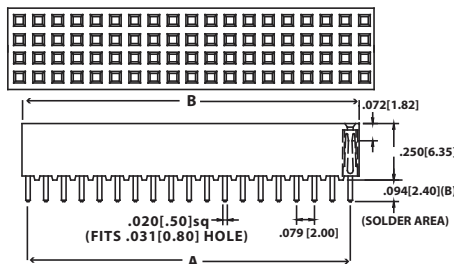
Dimensions in [] are in millimeters, all others are in inches.



**SINGLE READOUT,
STRAIGHT TAIL SHOWN**



**DUAL READOUT,
STRAIGHT TAIL SHOWN**



**QUAD READOUT,
STRAIGHT TAIL SHOWN**

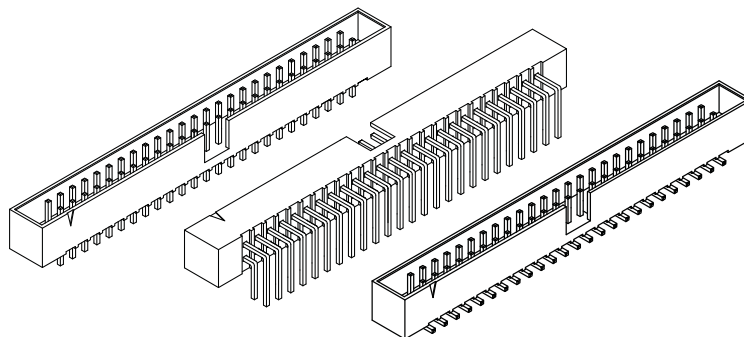
PART NUMBER	NUMBER OF CONTACTS SINGLE/DUAL/ QUAD	CENTER TO CENTER LENGTH [A]		OVERALL LENGTH [B]	
		INCHES	[MM]	INCHES	[MM]
PN02 N-RC	02/04	0.079	2.00	0.157	4.00
PN03 N-RC	03/06	0.157	4.00	0.236	6.00
PN04 N-RC	04/08	0.236	6.00	0.315	8.00
PN05 N-RC	05/10/20	0.315	8.00	0.394	10.00
PN06 N-RC	06/12/24	0.394	10.00	0.472	12.00
PN07 N-RC	07/14/28	0.472	12.00	0.551	14.00
PN08 N-RC	08/16/32	0.551	14.00	0.630	16.00
PN09 N-RC	09/18/36	0.630	16.00	0.709	18.00
PN10 N-RC	10/20/40	0.709	18.00	0.787	20.00
PN11 N-RC	11/22/44	0.787	20.00	0.866	22.00
PN12 N-RC	12/24/48	0.866	22.00	0.945	24.00
PN13 N-RC	13/26/52	0.945	24.00	1.024	26.00
PN14 N-RC	14/28/54	1.024	26.00	1.102	28.00
PN15 N-RC	15/30/60	1.102	28.00	1.181	30.00
PN16 N-RC	16/32/64	1.181	30.00	1.260	32.00
PN17 N-RC	17/34/68	1.260	32.00	1.339	34.00
PN18 N-RC	18/36/72	1.339	34.00	1.417	36.00
PN19 N-RC	19/38/76	1.417	36.00	1.496	38.00
PN20 N-RC	20/40/80	1.496	38.00	1.575	40.00
PN21 N-RC	21/42/84	1.575	40.00	1.654	42.00
PN22 N-RC	22/44/88	1.654	42.00	1.732	44.00
PN23 N-RC	23/46/92	1.732	44.00	1.811	46.00
PN24 N-RC	24/48/96	1.811	46.00	1.890	48.00
PN25 N-RC	25/50/100	1.890	48.00	1.969	50.00
PN26 N-RC	26/52/104	1.969	50.00	2.047	52.00
PN27 N-RC	27/54/108	2.047	52.00	2.126	54.00
PN28 N-RC	28/56/112	2.126	54.00	2.205	56.00
PN29 N-RC	29/58/116	2.205	56.00	2.283	58.00
PN30 N-RC	30/60/120	2.283	58.00	2.362	60.00
PN31 N-RC	31/62	2.362	60.00	2.441	62.00
PN32 N-RC	32/64	2.441	62.00	2.520	64.00
PN33 N-RC	33/66	2.520	64.00	2.598	66.00
PN34 N-RC	34/68	2.598	66.00	2.677	68.00
PN35 N-RC	35/70	2.677	68.00	2.756	70.00
PN36 N-RC	36/72	2.756	70.00	2.835	72.00
PN37 N-RC	37/74	2.835	72.00	2.913	74.00
PN38 N-RC	38/76	2.913	74.00	2.992	76.00
PN39 N-RC	39/78	2.992	76.00	3.071	78.00
PN40 N-RC	40/80	3.071	78.00	3.150	80.00



.079" [2.00mm] Contact Centers, Shrouded (Box) Headers Straight/Right Angle/SMT - SBH Series *Mates with SFH21 series (See opposite page)*

SPECIFICATIONS

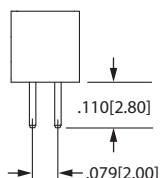
- **Centered Polarizing Notch**
- Operating Temperature: - 40° C to + 85° C
- Processing Temperature: 230° C for 60 seconds Max.
(260° C, 10 seconds)
- UL Flammability Rating: 94V-0
- Voltage Rating: 20m OHMs Max.
- Current Rating: 2 AMP per contact
- Voltage Drop: AC 500 V.
- Insulation Resistance: 1000 Mega OHMS



PART NUMBER OPTIONS

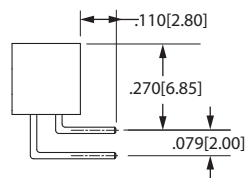
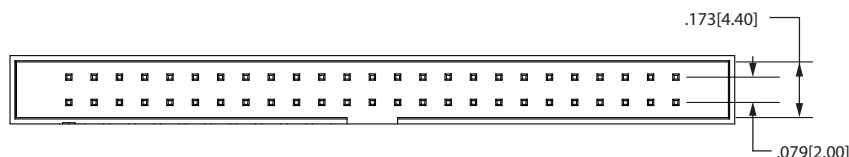
SERIES	SBH21 - N B P N - D 10 - ST - BK	COLOR
SBH21 = Box Header with Centered Polarizing Notch		BK = Black Other Color Options Available (Consult Factory)
HOUSING MATERIAL		TERMINATION TYPE
N = Nylon 6T		ST = Straight RA = Right Angle SM = Surface Mount
CONTACT MATERIAL		NUMBER OF CONTACT POSITIONS (Pins per Row)
B = Brass		03 thru 20, 22, 25, 27, 28, 30, 31, 32, 34
CONTACT FINISH - RoHS Compliant		NUMBER OF ROWS
P = Gold Flash Overall		D = Dual Row
CONTACT CENTERS		
N = .079" [2.00mm]		

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com



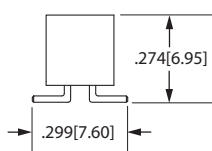
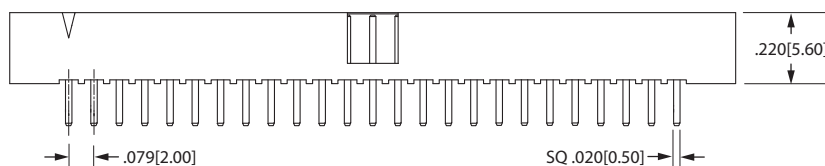
STRAIGHT (ST)

Example P/N: SBH21-NBPN-D20-ST-BK



RIGHT ANGLE (RA)

Example P/N: SBH21-NBPN-D20-RA-BK



SURFACE MOUNT (SM)

Example P/N: SBH21-NBPN-D20-SM-BK

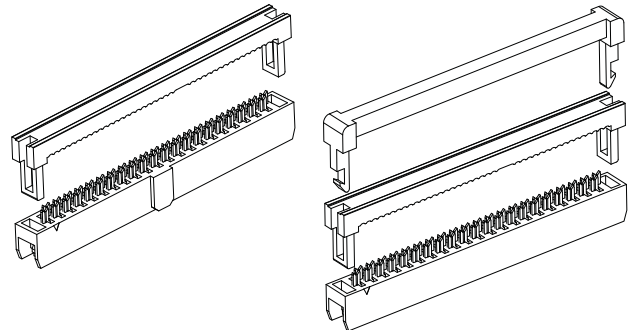




**.079" [2.00mm] Contact Centers, IDC Sockets, Insulation Displacement
With or Without Strain Relief- SFH Series
Mates with SBH21 series (See opposite page)**

SPECIFICATIONS

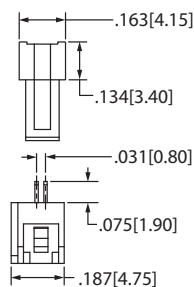
- **Centered Polarizing Key Optional**
- Operating Temperature: - 45° C to + 85° C
- UL Flammability Rating: 94V-0
- Current Rating: 1 AMP per contact
- Dielectric Withstanding: 500 VAC
- Insulation Resistance: 1000 Mega OHMS



PART NUMBER OPTIONS

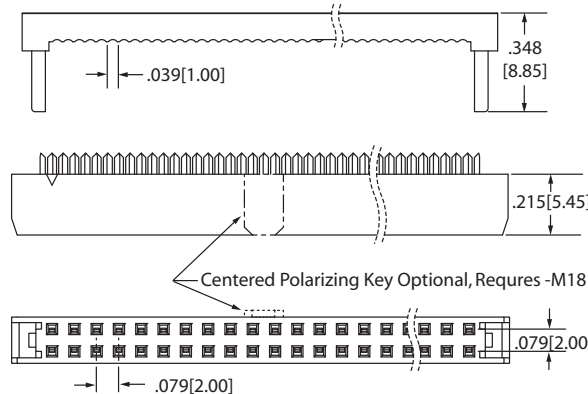
SERIES	SFH21	-	P	P	P	N	-	D	10	-	ID	-	BK	-	M181	MODIFICATION (Omit for Standard) M181 = Without Centered Polarizing Key
	SFH21 = IDC Socket Without Strain Relief															COLOR BK = Black GY = Grey
HOUSING MATERIAL																TERMINATION TYPE (Opposite Page) ID = Insulation Displacement
	P = PBT															NUMBER OF CONTACT POSITIONS 03 thru 13, 15, 17, 20, 22, 25, 30, 34 (SFH21) 05 thru 13, 15, 17, 20, 22, 25 (SFH213)
CONTACT MATERIAL																NUMBER OF ROWS D = Dual Row
	P = Phosphor Bronze															CONTACT CENTERS N = .079" [2.00mm]
CONTACT FINISH - RoHS Compliant																
	P = Gold Flash Overall															
	E = .000100" Pure Tin, Matte, Overall															
	V = Gold Flash on Contact Surface, Nickel Underplate on Tails															

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com

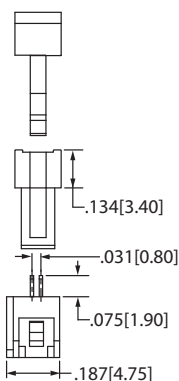
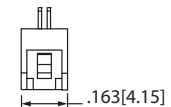


**INSULATION DISPLACEMENT (ID)
without Strain Relief,
requires SFH21**

Example P/N: SFH21-PPPN-D20-ID-BK

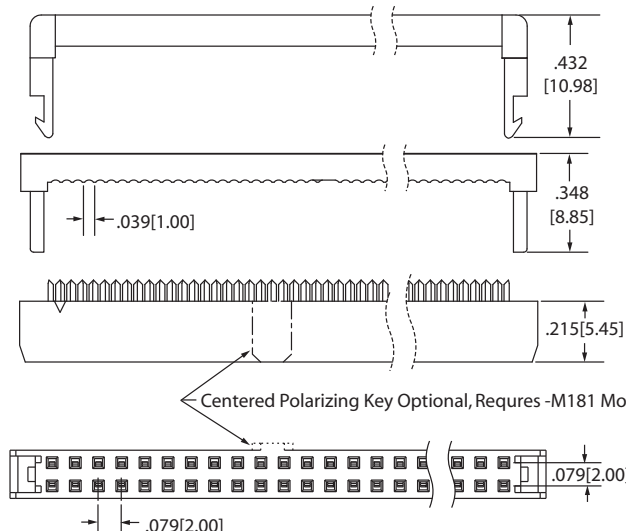


**-M181 Modification
(No Centered
Polarizing Key)**

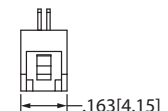


**INSULATION DISPLACEMENT (ID)
with Strain Relief,
requires SFH213**

Example P/N: SFH213-PPPN-D20-ID-BK

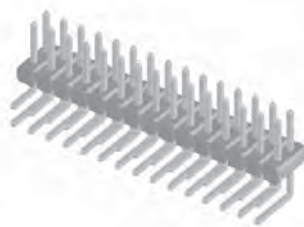
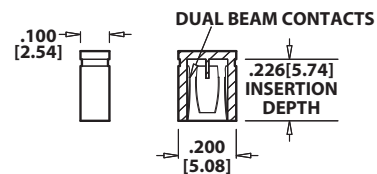


**-M181 Modification
(No Centered
Polarizing Key)**

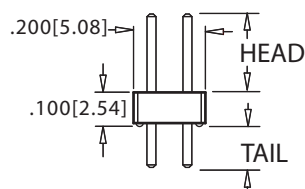
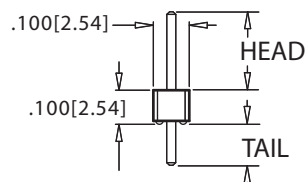


**.100" [2.54 mm] Contact Centers, Male Breakaway Header**
Dip Solder/Right Angle/SMT**SPECIFICATIONS**

- 3 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Polyester, PA9T
- Contact Material: Phosphor Bronze

**JUMPERS** (see jumper pages for additional options)

PART NUMBER:
STC02SYAN (TIN PLATE)
SPC02SYAN (GOLD FLASH)
SSC02SYAN (0.00010" GOLD PLATE)

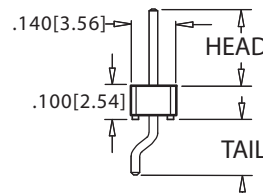
TERMINATION TYPES
STRAIGHT TERMINATIONS

P/N CODE	HEAD DIMENSION	TAIL DIMENSION
AA	.230[5.84]	.120[3.05]
AB	.230[5.84]	.230[5.84]
AC	.230[5.84]	.320[8.13]
AD	.230[5.84]	.420[10.67]
AE	.230[5.84]	.520[13.21]
AF	.230[5.84]	.620[15.75]
AG	.230[5.84]	.720[18.29]
AH	.230[5.84]	.820[20.83]
AI*	.230[5.84]	.900[22.86]
AJ*	.230[5.84]	1.000[25.40]
AK*	.230[5.84]	.035[0.89]
FA	.318[8.08]	.120[3.05]
FB	.318[8.08]	.220[5.59]
FC	.318[8.08]	.320[8.13]
FD	.318[8.08]	.420[10.67]
FE	.318[8.08]	.520[13.21]
FF*	.318[8.08]	.620[15.75]
FG*	.318[8.08]	.710[18.29]
FH*	.318[8.08]	.810[20.83]
FI*	.318[8.08]	.910[23.37]
FJ*	.318[8.08]	.050[1.27]
ZA	.120[3.05]	.120[3.05]
ZB*	.120[3.05]	.095[2.41]
ZC	.120[3.05]	.260[6.60]
ZD	.120[3.05]	.610[15.49]
ZI*	.520[13.21]	.110[2.79]
ZJ*	.720[18.29]	.110[2.79]
ZO*	.820[20.83]	.110[2.79]
ZQ*	1.020[25.91]	.110[2.79]
ZR*	1.220[30.99]	.110[2.79]

*Consult Factory for availability

SMT TERMINATIONS

Single Row with -M89 Modification Code

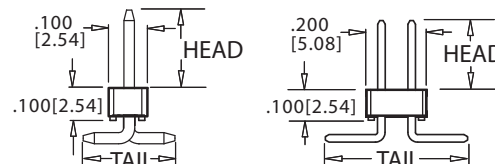


P/N CODE	HEAD DIMENSION	TAIL DIMENSION
BS	.230[5.84]	.180[4.57]
GS	.318[8.08]	.180[4.57]
ZC*	.120[3.05]	.180[4.57]
ZU*	.420[10.67]	.180[4.57]

*Consult Factory for availability.

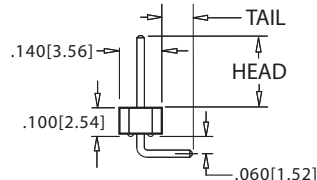
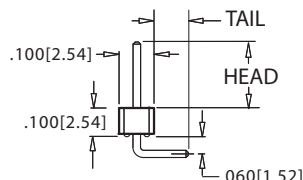
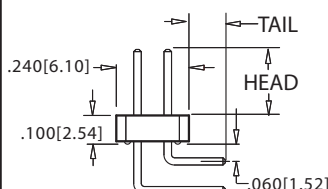
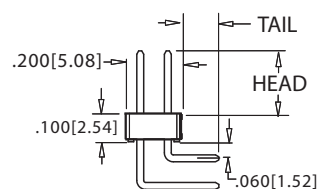
SMT TERMINATIONS

Single or Dual Row with -M30 Modification Code



P/N CODE	HEAD DIMENSION	SINGLE ROW TAIL DIMENSION	DUAL ROW TAIL DIMENSION
AB	.230[5.84]	.320[8.13]	.420[10.67]
FB	.318[8.08]	.300[7.62]	.400[10.16]
ZS*	.120[3.05]	.200[5.08]	.300[7.62]
ZT*	.420[10.67]	.200[5.08]	.300[7.62]

*Consult Factory for availability

RIGHT ANGLE BEND TERMINATIONS**RIGHT ANGLE (Standard)****RIGHT ANGLE SINGLE (Narrow)**
-M71 Modification Code**RIGHT ANGLE (Standard)****RIGHT ANGLE DUAL (Narrow)**
-M71 Modification Code

P/N CODE	HEAD DIMENSION	TAIL DIMENSION	-M71 TAIL DIMENSION
BA	.230[5.84]	.100[2.54]	.120[3.05]
BB	.230[5.84]	.200[5.08]	.220[5.59]
BC	.230[5.84]	.300[7.62]	.320[8.13]
BD	.230[5.84]	.400[10.16]	.420[10.67]
BE	.230[5.84]	.500[12.7]	.520[13.21]
BF**	.230[5.84]	.600[15.24]	.620[15.75]
BG**	.230[5.84]	.700[17.78]	.720[18.29]
BH*	.230[5.84]	.800[20.32]	.820[20.83]
BI*	.230[5.84]	.900[22.86]	.920[23.37]
BJ*	.230[5.84]	1.000[25.40]	1.020[25.91]
GA	.318[8.08]	.100[2.54]	.120[3.05]
GB	.318[8.08]	.200[5.08]	.220[5.59]
GC**	.318[8.08]	.300[7.62]	.320[8.13]
GD**	.318[8.08]	.400[10.16]	.420[10.67]
GE*	.318[8.08]	.600[15.24]	.620[15.75]
GF*	.318[8.08]	.800[20.32]	.820[20.83]
DA**	.120[3.05]	.120[3.05]	.140[3.56]

*Consult Factory for availability.

**Consult factory for availability in Dual Readout

.100" [2.54 mm] Contact Centers, Male Breakaway Header Dip Solder/Right Angle/SMT



PART NUMBER OPTIONS

SERIES _____

P = PBT/Phosphor Bronze
Operating Temperature: -65°C to + 125°C
Processing Temperature: 260° for 10 sec. Max.

G = PA9T/Phosphor Bronze (Required on SMT)
Operating Temperature: -65°C to + 150°C
Processing Temperature: 260° for 120 sec. Max.

CONTACT FINISH - RoHS Compliant _____

All platings are Lead Free and have .000050" Nickel underplate

Contact Surface	Termination
B = .000010" Gold	.000100" Pure Tin, Matte
C = .000030" Gold	.000100" Pure Tin, Matte
Contact Surface	Overall Plating
E = .000010" Pure Tin, Matte	.000100" Pure Tin, Matte

CONTACT CENTERS _____

C = .100" [2.54mm]

NUMBER OF POSITIONS _____

01 Thru 36 (eg. 36 Dual = 72 Contacts)

MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD
-M30 = SMT ('G' Material Only), Vertical
-M89 = SMT ('G' Material Only), Horizontal
-M71 = Narrow Body (Right Angle Only)

MOUNTING STYLE
N = No Mounting
R = Retent Lead (Single Row Only)

TERMINATION TYPE (Opposite Page)

Straight = AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR

Right Angle = BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, GA, GB, GC, GD, GE, GF, DA

Right Angle with -M71 Modification Code
= BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, GA, GB, GE, GF

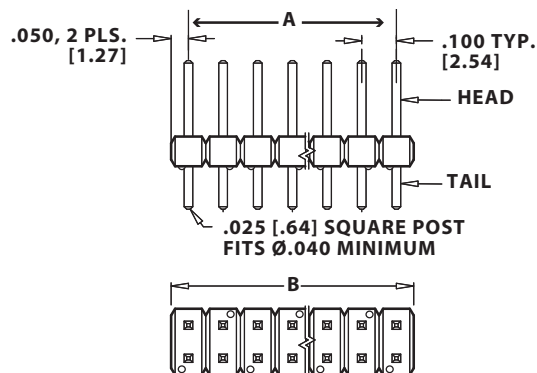
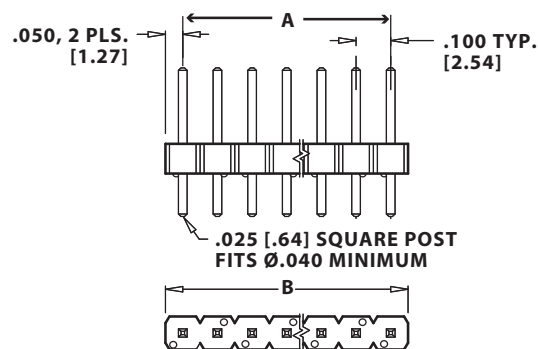
SMT with -M89 Modification Code
= BS, GS, ZC, ZU (*Single Row & 'G' Material Only*)

SMT with -M30 Modification Code
= AB, FB, ZS, ZT (*'G' Material Only*)

READOUT (Opposite Page)
S = Single
D = Dual

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



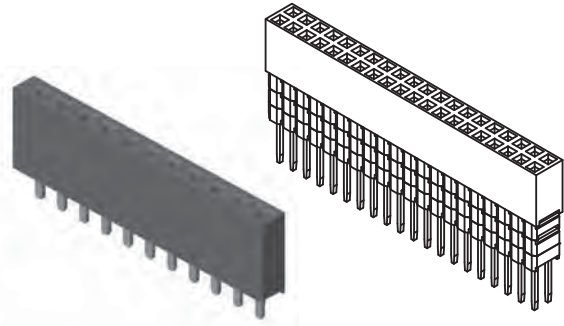
PART NUMBER	NUMBER OF CONTACTS SINGLE/DUAL	A		B	
		Inches	[MM]	Inches	[MM]
P_C01__N	01/02	0.000	0.00	0.100	2.54
P_C02__N	02/04	0.100	2.54	0.200	5.08
P_C03__N	03/06	0.200	5.08	0.300	7.62
P_C04__N	04/08	0.300	7.62	0.400	10.16
P_C05__N	05/10	0.400	10.16	0.500	12.70
P_C06__N	06/12	0.500	12.70	0.600	15.24
P_C07__N	07/14	0.600	15.24	0.700	17.78
P_C08__N	08/16	0.700	17.78	0.800	20.32
P_C09__N	09/18	0.800	20.32	0.900	22.86
P_C10__N	10/20	0.900	22.86	1.000	25.40
P_C11__N	11/22	1.000	25.40	1.100	27.94
P_C12__N	12/24	1.100	27.94	1.200	30.48
P_C13__N	13/26	1.200	30.48	1.300	33.02
P_C14__N	14/28	1.300	33.02	1.400	35.56
P_C15__N	15/30	1.400	35.56	1.500	38.10
P_C16__N	16/32	1.500	38.10	1.600	40.64
P_C17__N	17/34	1.600	40.64	1.700	43.18
P_C18__N	18/36	1.700	43.18	1.800	45.72
P_C19__N	19/38	1.800	45.72	1.900	48.26
P_C20__N	20/40	1.900	48.26	2.000	50.80
P_C21__N	21/42	2.000	50.80	2.100	53.34
P_C22__N	22/44	2.100	53.34	2.200	55.88
P_C23__N	23/46	2.200	55.88	2.300	58.42
P_C24__N	24/48	2.300	58.42	2.400	60.96
P_C25__N	25/50	2.400	60.96	2.500	63.50
P_C26__N	26/52	2.500	63.50	2.600	66.04
P_C27__N	27/54	2.600	66.04	2.700	68.58
P_C28__N	28/56	2.700	68.58	2.800	71.12
P_C29__N	29/58	2.800	71.12	2.900	73.66
P_C30__N	30/60	2.900	73.66	3.000	76.20
P_C31__N	31/62	3.000	76.20	3.100	78.74
P_C32__N	32/64	3.100	78.74	3.200	81.28
P_C33__N	33/66	3.200	81.28	3.300	83.82
P_C34__N	34/68	3.300	83.82	3.400	86.36
P_C35__N	35/70	3.400	86.36	3.500	88.90
P_C36__N	36/72	3.500	88.90	3.600	91.44



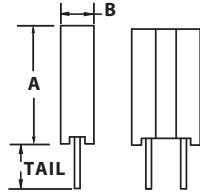
.100" [2.54 mm] Contact Centers, Female Header Straight/Right Angle/SMT

SPECIFICATIONS

- 3 amp current rating per contact
- UL Flammability Rating : 94V-O
- Insulator : Nylon 6-T/Polyester
- Contact Material : Phosphor Bronze

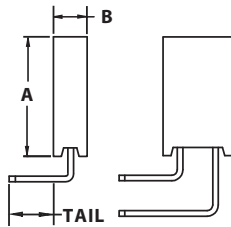


TERMINATION TYPE



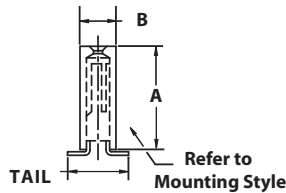
STRAIGHT

P/N CODE	ROWS	TERM	A	B	TAIL
LFB	1	STRAIGHT	.334[8.50]	.100[2.54]	.126[3.20]
	2	STRAIGHT	.334[8.50]	.200[5.08]	.126[3.20]



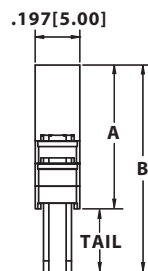
RIGHT ANGLE

P/N CODE	ROWS	TERM	A	B	TAIL
LGB	1	RIGHT ANGLE	.334[8.50]	0.100[2.54]	.124[3.15]
LJB	2	RIGHT ANGLE	.334[8.50]	0.200[5.08]	.124[3.15]



SMT

P/N CODE	ROWS	TERM	ENTRY	A	B	TAIL
KFX	1	SMT	TOP ENTRY	.279[7.10]	.098[2.50]	.169[4.30]
KFM	2	SMT	TOP ENTRY	.279[7.10]	.197[5.00]	.270[6.85]



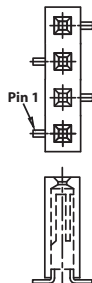
2 ROW STRAIGHT WITH
ELEVATED SPACER

P/N CODE	ROWS	MODIFICATION	# OF SPACERS	A	B	TAIL
LFH	2	M44	1	.435[11.04]	.725[18.42]	.291[7.38]
	2	M45	2	.535[13.58]	.725[18.42]	.191[4.84]
	2	M46	3	.635[16.12]	.725[18.42]	.091[2.30]
	2	M50	1	.435[11.04]	.525[13.34]	.091[2.30]
	2	M51	1	.435[11.04]	.915[23.24]	.480[12.20]
	2	M52	2	.535[13.58]	.915[23.23]	.380[9.65]
	2	M53	3	.635[16.12]	.914[23.22]	.280[7.10]
	2	M54	4	.735[18.66]	.916[23.26]	.181[4.60]

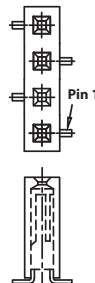
MOUNTING STYLE



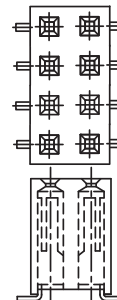
No Mounting
Standard (N)



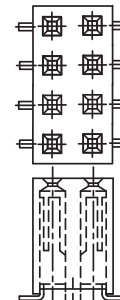
One Row SMT,
Pin 1 Left (C)



One Row SMT,
Pin 1 Right (D)



Two Row SMT,
Without Guide Post (S)



Two Row SMT,
With Guide Post (P)



.100" [2.54 mm] Contact Centers, Female Header Straight/Right Angle/SMT

PART NUMBER OPTIONS

PP P C 36 1 LFB N - Mxx RC

PLASTIC HOUSING
PP = Polyester/Phosphor Bronze (Thru Hole Only)
NP = Nylon 6-T/Phosphor Bronze
(not available in LFH Termination)

CONTACT FINISH - RoHS Compliant
P = Gold Flash Overall
T = 100% Pure Tin Overall

CONTACT CENTERS
C = .100" [2.54mm]

NUMBER OF POSITIONS
02 Thru 40
(e.g. 36 position has 72 contacts)

RoHS Compliant

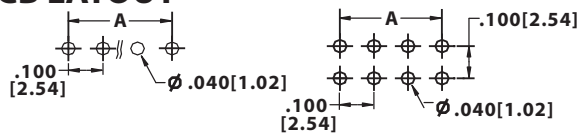
MODIFICATION (omit for Standard)
Required for LFH Termination
see Termination Type on Opposite Page

MOUNTING STYLE
N = No Mounting
C = SMT, One Row, pin 1 Left
D = SMT, One Row, pin 1 Right
P = SMT, 2 Row with guide pins
S = SMT, 2 Row without guide pins

TERMINATION TYPE
LFB = Straight
LGB = 1 Row Right Angle
LJB = 2 Row Right Angle
KFX = 1 Row SMT (NP SERIES ONLY)
KFM = 2 Row SMT (NP SERIES ONLY)
LFH = 2 Row Straight with Elevated Spacer
(Requires Modification see Opposite Page)

NUMBER OF ROWS (Opposite Page)
1 = 1 Row
2 = 2 Row

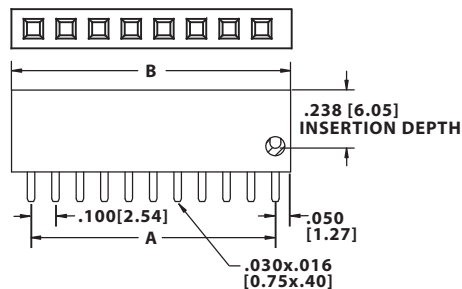
PCB LAYOUT



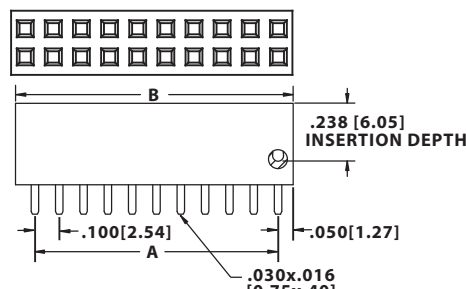
**Recommended P.C.Board
Hole Layout**

DIMENSIONS

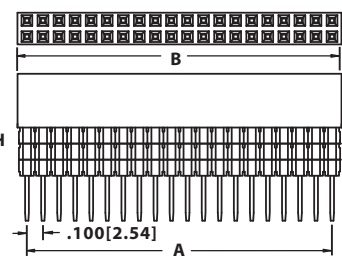
Dimensions in [] are in millimeters, all others are in inches.



**SINGLE READOUT,
STRAIGHT TAIL SHOWN**



**DUAL READOUT,
STRAIGHT TAIL SHOWN**



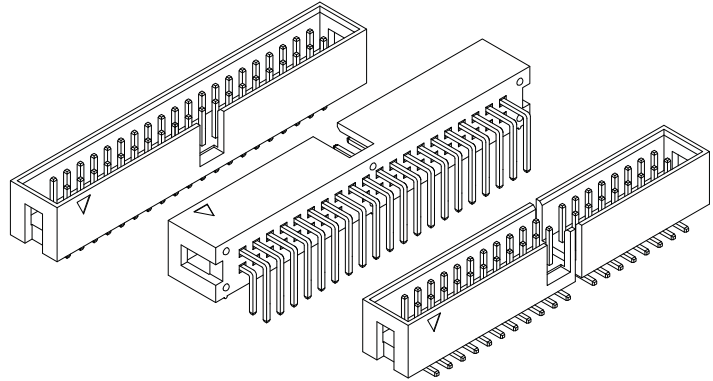
**DUAL READOUT STRAIGHT TAIL
WITH ELEVATED SPACER SHOWN**

Number of Positions	Number of Contacts		Dimension A		Dimension B	
	1 Row	2 Row	Inches	[mm]	Inches	[mm]
01	1	2				
02	2	4	.100	2.54	.220	5.58
03	3	6	.200	5.08	.320	8.12
04	4	8	.300	7.62	.420	10.66
05	5	10	.400	10.16	.520	13.20
06	6	12	.500	12.70	.620	15.74
07	7	14	.600	15.24	.720	18.28
08	8	16	.700	17.78	.820	20.82
09	9	18	.800	20.32	.920	23.36
10	10	20	.900	22.86	1.020	25.90
11	11	22	1.000	25.40	1.120	28.44
12	12	24	1.100	27.94	1.220	30.98
13	13	26	1.200	30.48	1.320	33.52
14	14	28	1.300	33.02	1.420	36.06
15	15	30	1.400	35.56	1.520	38.60
16	16	32	1.500	38.10	1.620	41.14
17	17	34	1.600	40.64	1.720	43.68
18	18	36	1.700	43.18	1.820	46.22
19	19	38	1.800	45.72	1.920	48.76
20	20	40	1.900	48.26	2.020	51.30

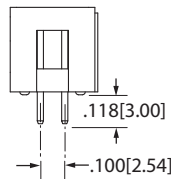
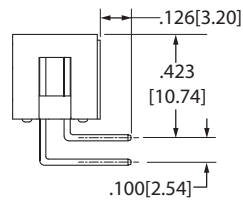
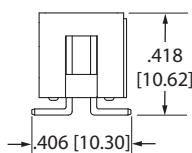
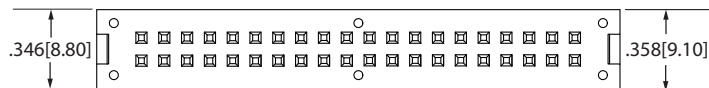
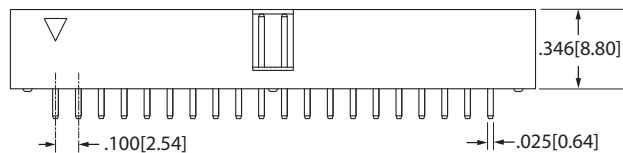
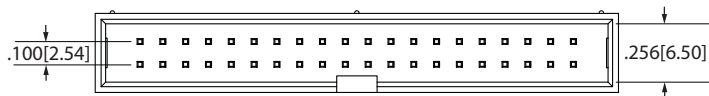
Number of Positions	Number of Contacts		Dimension A		Dimension B	
	1 Row	2 Row	Inches	[mm]	Inches	[mm]
21	21	42	2.000	50.80	2.120	53.84
22	22	44	2.100	53.34	2.220	56.38
23	23	46	2.200	55.88	2.320	58.92
24	24	48	2.300	58.42	2.420	61.46
25	25	50	2.400	60.96	2.520	64.00
26	26	52	2.500	63.50	2.620	66.54
27	27	54	2.600	66.04	2.720	69.08
28	28	56	2.700	68.58	2.820	71.62
29	29	58	2.800	71.12	2.920	74.16
30	30	60	2.900	73.66	3.020	76.70
31	31	62	3.000	76.20	3.120	79.24
32	32	64	3.100	78.74	3.220	81.78
33	33	66	3.200	81.28	3.320	84.32
34	34	68	3.300	83.82	3.420	86.86
35	35	70	3.400	86.36	3.520	89.40
36	36	72	3.500	88.90	3.620	91.94
37	37	74	3.600	91.44	3.720	94.48
38	38	76	3.700	93.98	3.820	97.02
39	39	78	3.800	96.52	3.920	99.56
40	40	80	3.900	99.06	4.020	102.10

**.100" [2.54mm] Contact Centers, Shrouded (Box) Headers****Straight/Right Angle/SMT - SBH Series****Mates with SFH11 series (See page 105) and SFH210 series (see page 106)****SPECIFICATIONS**

- **Centered Polarizing Notch**
- Operating Temperature: - 40° C to + 85° C
- Processing Temperature: 230° C for 60 seconds Max.
(260° C, 10 seconds)
- UL Flammability Rating: 94V-0
- Voltage Rating: 20m OHMs Max.
- Current Rating: 3 AMP per contact
- Voltage Drop: AC 500 V.
- Insulation Resistance: 1000 Mega OHMS

**PART NUMBER OPTIONS**

SERIES	SBH11 - P B P C - D 10 - ST - BK	COLOR
SBH11 = Box Header with Centered Polarizing Notch		BK = Black Other Color Options Available (Consult Factory)
HOUSING MATERIAL		TERMINATION TYPE
P = PBT N = Nylon 6T		ST = Straight RA = Right Angle SM = Surface Mount, 'N' Material Only
CONTACT MATERIAL		NUMBER OF CONTACT POSITIONS (Pins per Row)
B = Brass		03 thru 08, 10, 12, 13, 15, 17, 20, 22, 25, 30, 32
CONTACT FINISH - RoHS Compliant		NUMBER OF ROWS
P = Gold Flash Overall		D = Dual Row
CONTACT CENTERS		
C = .100" [2.54mm]		

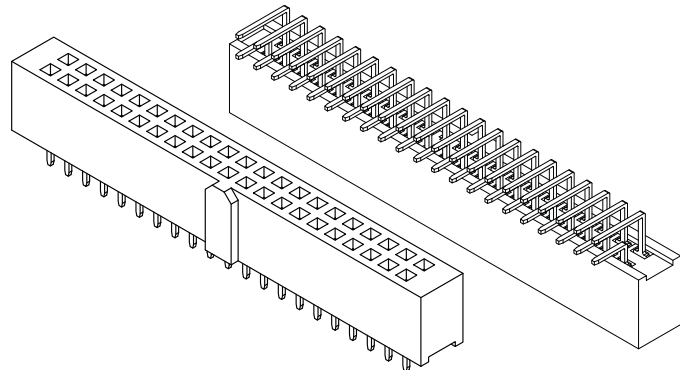
DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com**STRAIGHT (ST)****Example P/N: SBH11-PBPC-D20-ST-BK****RIGHT ANGLE (RA)****Example P/N: SBH11-PBPC-D20-RA-BK****SURFACE MOUNT (SM)****Example P/N: SBH11-NBPC-D20-SM-BK**



.100" [2.54mm] Contact Centers, Female Headers
Straight/Right Angle- SFH Series
Mates with SBH11 series (See opposite page)

SPECIFICATIONS

- **Centered Polarizing Key Optional**
- Operating Temperature: - 40° C to + 105° C
- Processing Temperature: 230° C for 60 seconds Max.
(260° C, 10 seconds)
- UL Flammability Rating: 94V-0
- Voltage Rating: 20m OHMs Max.
- Current Rating: 3 AMP per contact
- Dielectric Withstanding: 500 VAC
- Insulation Resistance: 1000 Mega OHMS



PART NUMBER OPTIONS

SFH11 - P P P C - D 10 - ST - BK - M181

SERIES

SFH11 = Female Header with Centered Polarizing Key

HOUSING MATERIAL

P = PBT

CONTACT MATERIAL

P = Phosphor Bronze
B = Brass

CONTACT FINISH - RoHS Compliant

P = Gold Flash Overall
E = .000100" Pure Tin, Matte, Overall

CONTACT CENTERS

C = .100" [2.54mm]

MODIFICATION (Omit for Standard)

M181 = Without Centered Polarizing Key

COLOR

BK = Black
GY = Grey

TERMINATION TYPE (Opposite Page)

ST = Straight
RA = Right Angle

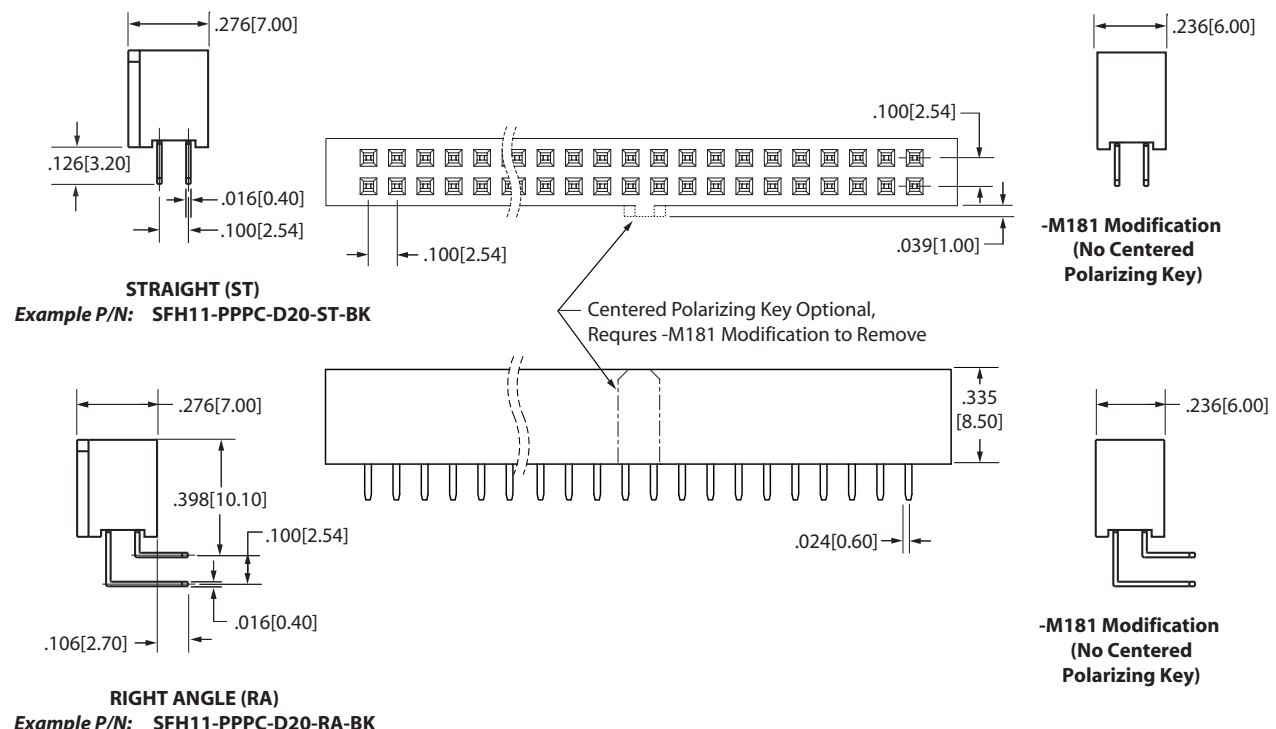
NUMBER OF CONTACT POSITIONS

03 thru 08,10,12,13,15,17,20,25,30,32

NUMBER OF ROWS

D = Dual Row

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com



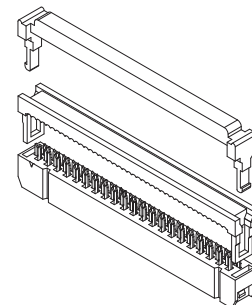
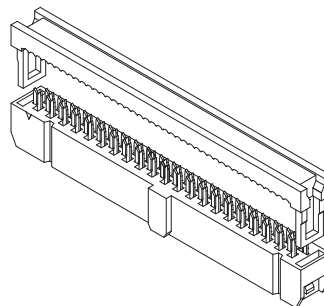


.100" [2.54 mm] Contact Centers, IDC Socket, Insulation Displacement- SFH Series With or Without Strain Relief

Mates with SBH11 series (See page 104)

SPECIFICATIONS

- **Centered Polarizing Key Optional**
- Operating Temperature: - 40° C to + 105° C
- UL Flammability Rating: 94V-0
- Current Rating: 1 AMP per contact
- Dielectric Withstanding: 500 VAC
- Insulation Resistance: 3,000 Mega OHMS
- For 1.27 mm Pitch AWG 26-28 Flat Ribbon Cable



PART NUMBER OPTIONS

SFH210 - P P P C - D 10 - ID - BK - Mxxx

SERIES

SFH210 = IDC Socket, Without Strain Relief
SFH213 = IDC Socket, With Strain Relief

HOUSING MATERIAL

P = PBT

CONTACT MATERIAL

P = Phosphor Bronze

CONTACT FINISH - RoHS Compliant

P = Gold Flash Overall
E = .000100" Pure Tin, Matte, Overall
V = Gold Flash on Contact Surface, Nickel Underplate on Tails
J = .000015" Gold on Contact Surface, Gold Flash on Tails
K = .000015" Gold on Contact Surface, Nickel Underplate on Tails

MODIFICATION (Omit for Standard)

M181 = Without Centered Polarizing Key
M207 = With Polarizing Key, With Mylar in Tape & Reel (only for SFH210)
M208 = Without Polarizing Key, With Mylar in Tape and Reel (only for SFH210)

COLOR

BK = Black

TERMINATION TYPE

ID = Insulation Displacement

NUMBER OF CONTACT POSITIONS

03 thru 13, 15, 17, 20, 25, 30, 32

*M208 and M207 not available in 30 and 32

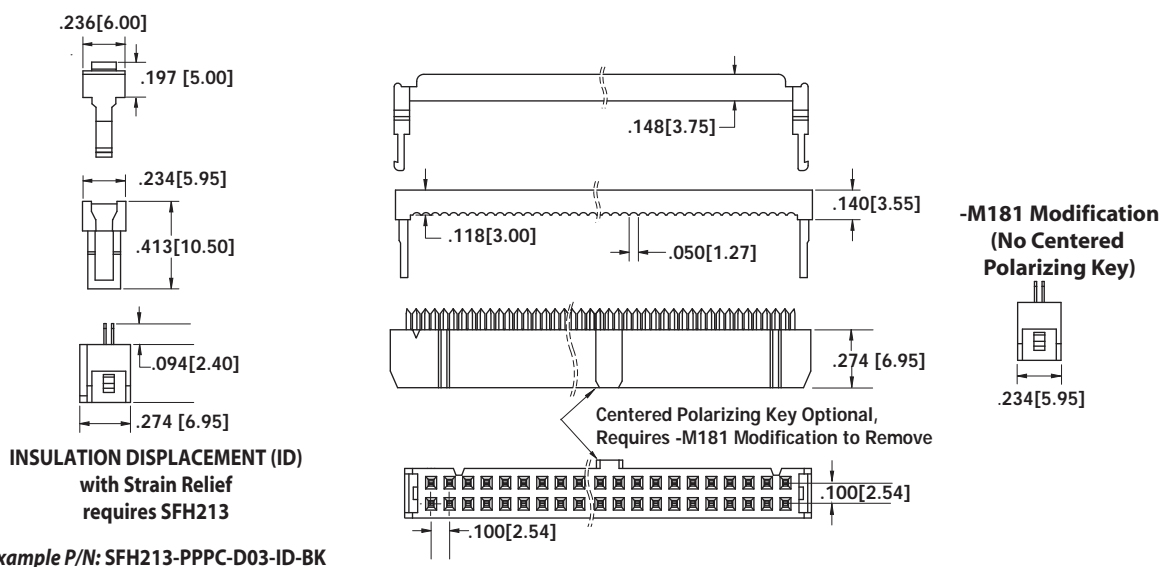
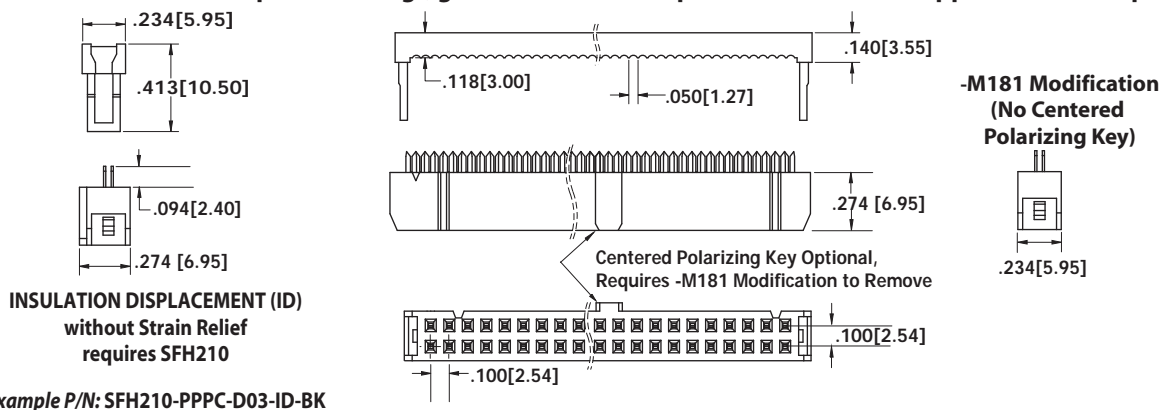
NUMBER OF ROWS

D = Dual Row

CONTACT CENTERS

C = .100" [2.54mm]

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com

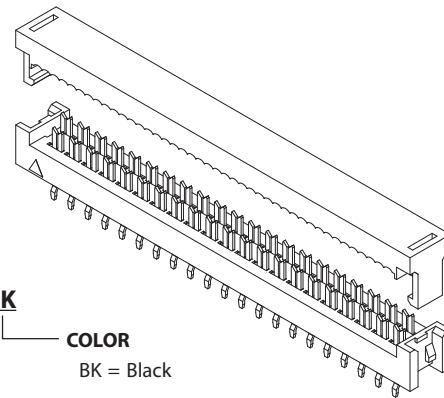




SPECIFICATIONS

- Operating Temperature: - 40° C to + 105° C
- Current Rating: 1 AMP per contact
- Dielectric Withstanding: 1,000 VAC
- Insulation Resistance: 5,000 Mega OHMS
- For 1.27 mm Pitch AWG 26-28 Flat Ribbon Cable
- UL Flammability Rating: 94V-0

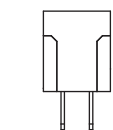
.100" [2.54 mm] Contact Centers, IDC Dip Plug Straight - SIP Series



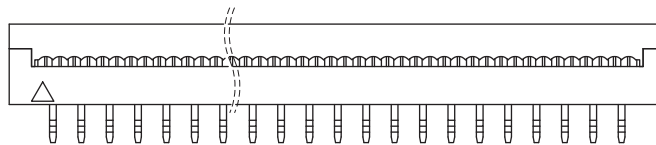
PART NUMBER OPTIONS

SERIES	SIP110	-	P	P	P	C	-	D	10	-	ST	-	BK	COLOR
SIP110 = IDC Dip Plug														BK = Black
HOUSING MATERIAL														TERMINATION TYPE
P = PBT														ST = Straight
CONTACT MATERIAL														SK = Straight with Kink
P = Phosphor Bronze														NUMBER OF CONTACT POSITIONS
CONTACT FINISH - RoHS Compliant														03 thru 10, 12, 13, 14, 15, 17, 20, 25, 30, 32
P = Gold Flash Overall														NUMBER OF ROWS
E = .000100" Pure Tin, Matte, Overall														D = Dual Row
V = Gold Flash on Contact Surface, Nickel Underplate on Tails														CONTACT CENTERS
J = .000015" Gold on Contact Surface, Gold Flash on Tails														C = .100" [2.54mm]
K = .000015" Gold on Contact Surface, Nickel Underplate on Tails														

DIMENSIONS For complete drawings, go to www.sullinscorp.com or e-mail techsupport@sullinscorp.com

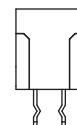


STRAIGHT (ST)

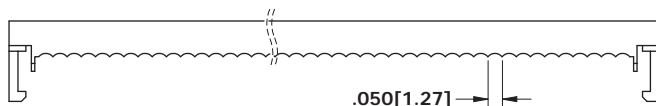


ASSEMBLED FRONT VIEW

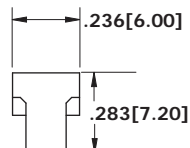
.291[7.40]



STRAIGHT WITH KINK (SK)

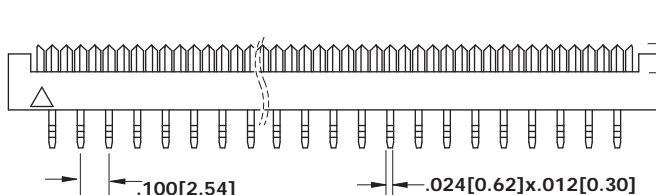


.050[1.27]



.236[6.00]

.283[7.20]

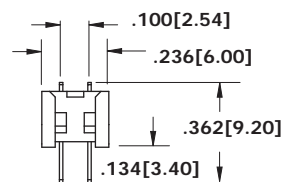


.091[2.30] (SK)

.094[2.40] (ST)

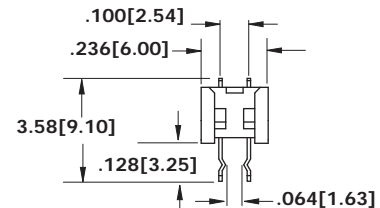
.100[2.54]

.024[0.62] x .012[0.30]



STRAIGHT (ST)

Example P/N: SIP110-PP_C-D10-ST-BK



.100[2.54]

.236[6.00]

3.58[9.10]

.128[3.25]

.064[1.63]

STRAIGHT WITH KINK (SK)

Example P/N: SIP110-PP_C-D15-SK-BK

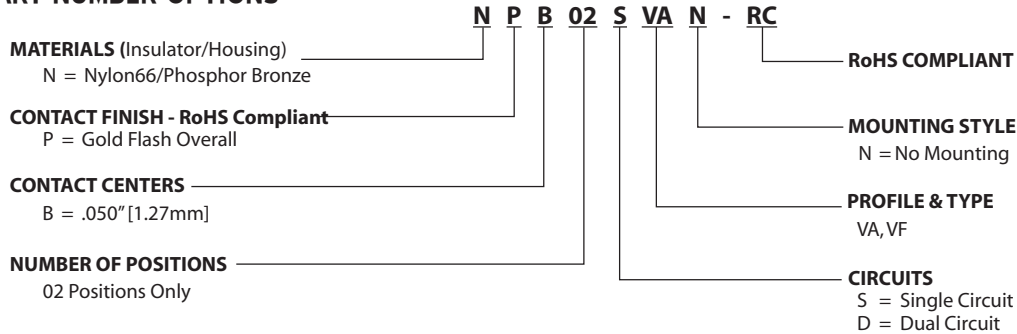


.050" [1.27 mm] Contact Centers, Jumper Closed Top

SPECIFICATIONS

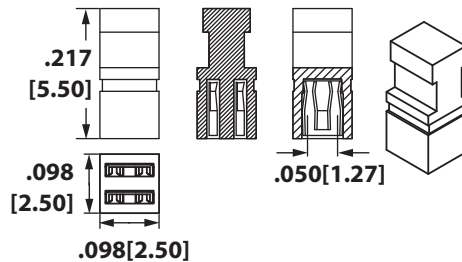
- Insulator Material: Nylon 66
- Contact Material: Phosphor Bronze
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-0/94V-2
- Dual Beam Contacts

PART NUMBER OPTIONS



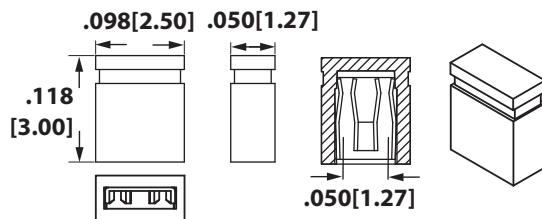
DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.

CLOSED TOP - DUAL CIRCUIT

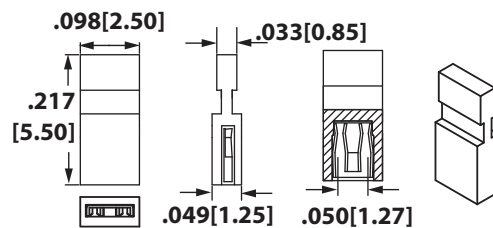


NPB02DVFN-RC

CLOSED TOP - SINGLE CIRCUIT



NPB02SVAN-RC



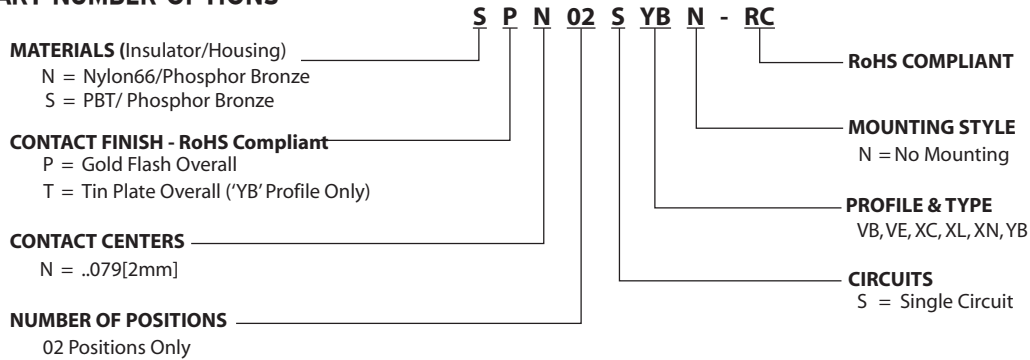
NPB02SVFN-RC



SPECIFICATIONS

- Insulator Material: Nylon 66 / PBT
- Contact Material: Phosphor Bronze
- Plating: Overall Gold Flash
- 1, 2 or 3 amp current rating per contact
- UL Flammability Rating: 94V-0/94V-2
- Dual Beam Contacts

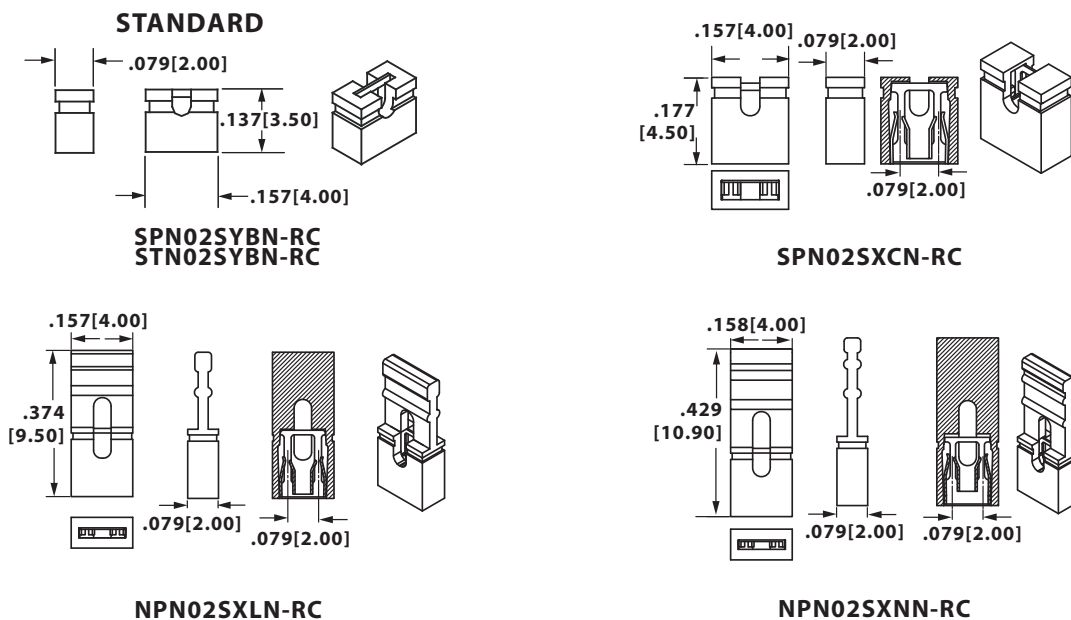
PART NUMBER OPTIONS



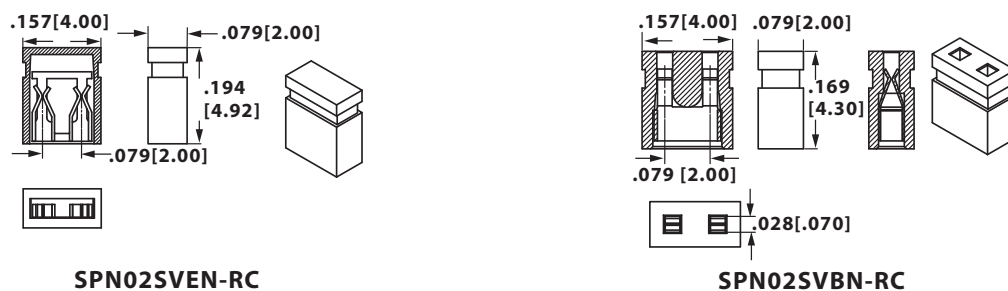
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

OPEN TOP - SINGLE CIRCUIT



CLOSED TOP - SINGLE CIRCUIT





.100"[2.54 mm] Contact Centers, Jumper Open / Closed Top

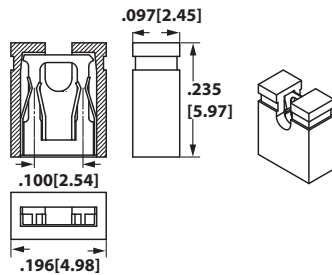
SPECIFICATIONS

- Insulator Material: Nylon 66/ PBT
- Contact Material: Phosphor Bronze / Brass
- Plating: Overall Gold Flash
- 3 amp current rating per contact
- UL Flammability Rating: 94V-0/94V-2
- Dual Beam Contacts

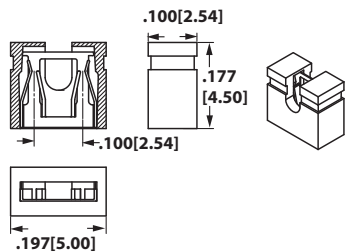
DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

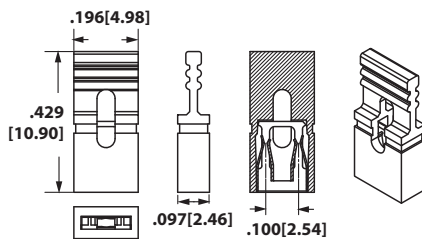
OPEN TOP - SINGLE CIRCUIT



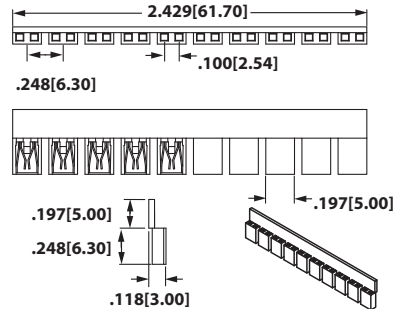
QPC02SXGN-RC



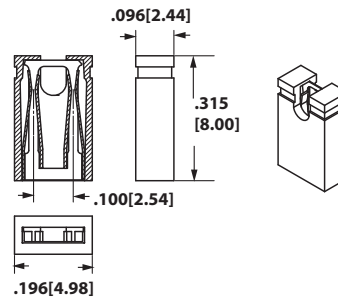
SPC02SXCN-RC



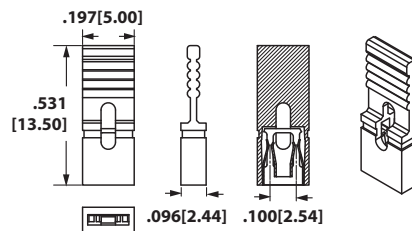
NPC02SXNN-RC



QPC02SXHN-M290RC (Strip of 10)

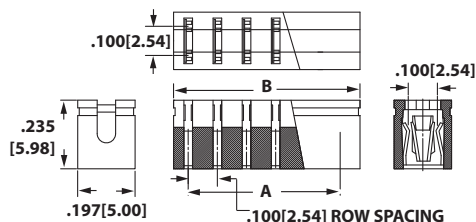


SPC02SXIN-RC



NPC02SXON-RC

OPEN TOP - CHOICE OF CIRCUITS



QPC02_XGN-RC

PART NUMBER	CIRCUITS	A		B	
		INCH	MM	INCH	MM
QPC02DXGN-RC	2	0.100	2.54	0.200	5.08
QPC02TXGN-RC	3	0.200	5.08	0.300	7.62
QPC02QXGN-RC	4	0.300	7.62	0.400	10.16
QPC02UXGN-RC	5	0.400	10.16	0.500	12.70
QPC02EXGN-RC	6	0.500	12.70	0.600	15.24
QPC02PXGN-RC	7	0.600	15.24	0.700	17.78
QPC02CXGN-RC	8	0.700	17.78	0.800	20.32
QPC02NXGN-RC	9	0.800	20.32	0.900	22.86
QPC02AXGN-RC	10	0.900	22.86	1.000	25.40
QPC02RXGN-RC	13	1.200	30.48	1.300	33.02



PART NUMBER OPTIONS

MATERIALS (Insulator/Housing)

N = Nylon66/Phosphor Bronze
S = PBT/Phosphor Bronze
Q = PBT/Brass

CONTACT FINISH - RoHS Compliant

P = Gold Flash Overall
S = .000010" Gold Overall ('YA' Profile only, see below)
T = Tin Overall ('YA' Profile only, see below)

CONTACT CENTERS

C = .100" [2.54]

NUMBER OF POSITIONS

02 Positions Only

S P C 02 S VD N - RC

RoHS COMPLIANT

QPC02SGBN-M290RC, strip of 10 jumpers
(See opposite page)

MOUNTING STYLE

N = No Mounting

PROFILE & TYPE

VD, VG, VJ, VK, XC, XG, XH, XI, XN, XO, YA

CIRCUITS

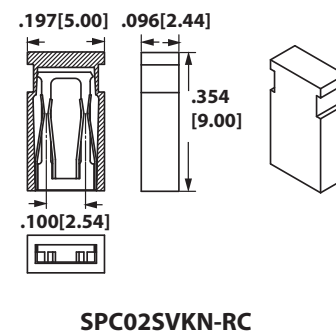
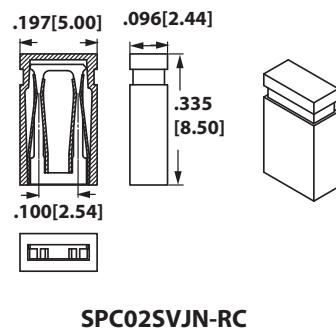
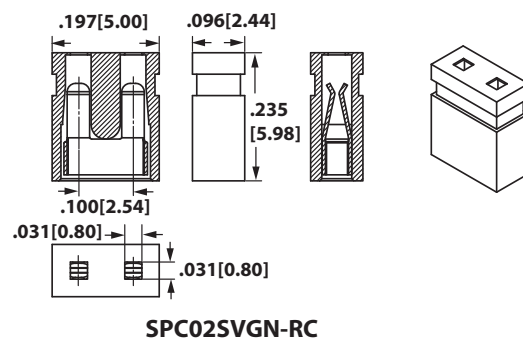
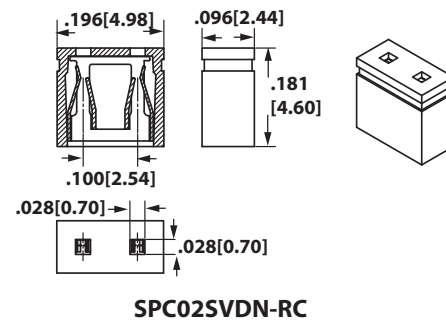
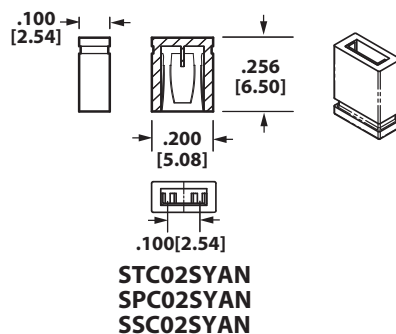
S = 1 Circuit
D = 2 Circuits
T = 3 Circuits
Q = 4 Circuits
U = 5 Circuits
E = 6 Circuits
P = 7 Circuits
C = 8 Circuits
N = 9 Circuits
A = 10 Circuits
R = 13 Circuits

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.

CLOSED TOP - SINGLE CIRCUIT

STANDARD





1.25 mm [.049"] Contact Centers, 120 Series Crimp Terminal and Housing
Terminal Suitable for SWH120 Series Housing
Housing Suitable for SWT120 Series Terminal
Housing Mates with SWR120 Series Wafer

CRIMP TERMINAL SPECIFICATIONS

- Material: Phosphor Bronze
- Wire Range: AWG #28-#32
- Insulation O.D.: 1.00mm MAX
- Quantity Per Reel = 15,000 Pieces

PART NUMBER OPTIONS

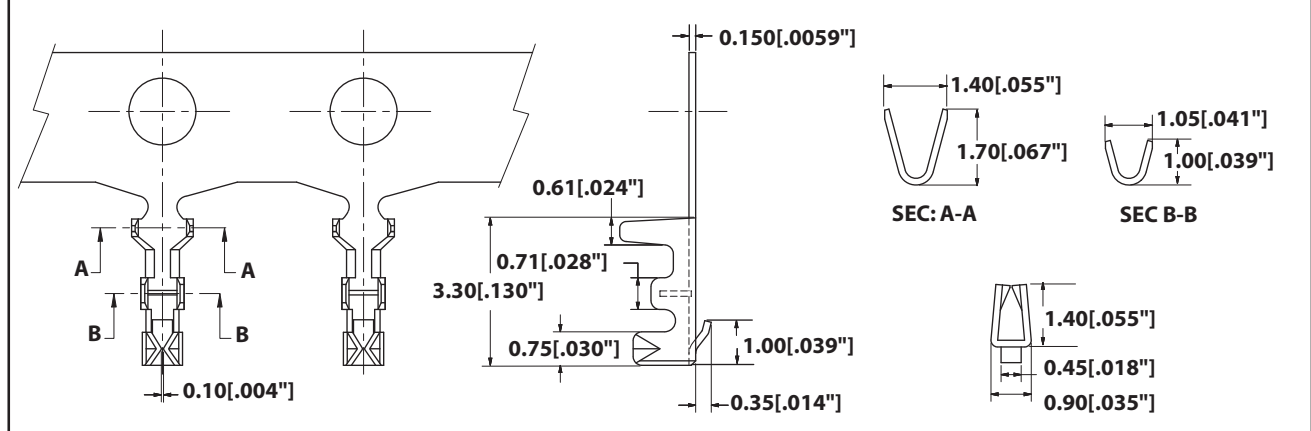
SWT120-UPEG-S01-UU-UU

CONTACT FINISH - RoHS Compliant

E = TIN OVERALL

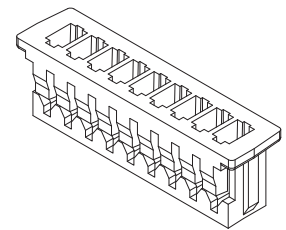
P = GOLD FLASH OVERALL

DIMENSIONS

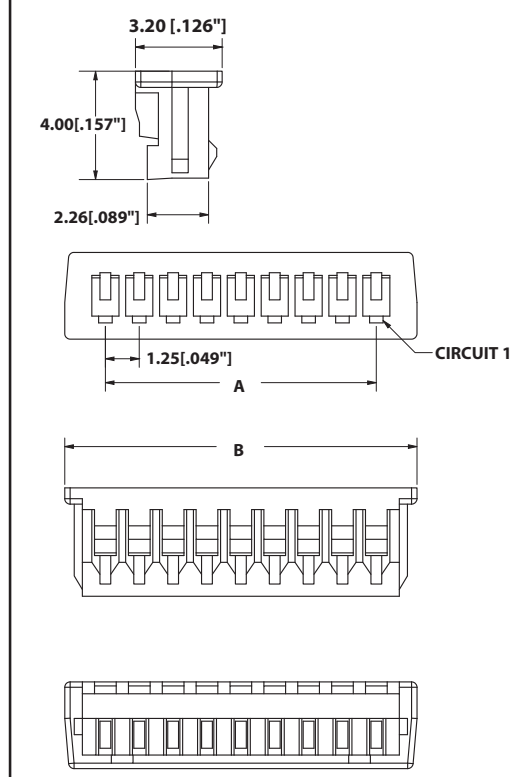


HOUSING SPECIFICATIONS

- Material: PBT, Color: White
- Operating Temperature: -25° C to +85° C
- UL Flammability Rating: V94-0



DIMENSIONS



PART NUMBER OPTIONS

SWH120-PULG-S10-UU-WH

NUMBER OF POSITIONS
(CONTACTS PER ROW)

Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWH120-PULG-S02-UU-WH	02/02	1.25	0.049	4.25	0.167
SWH120-PULG-S03-UU-WH	03/03	2.50	0.098	5.50	0.217
SWH120-PULG-S04-UU-WH	04/04	3.75	0.148	6.75	0.266
SWH120-PULG-S05-UU-WH	05/05	5.00	0.197	8.00	0.315
SWH120-PULG-S06-UU-WH	06/06	6.25	0.246	9.25	0.364
SWH120-PULG-S07-UU-WH	07/07	7.50	0.295	10.50	0.413
SWH120-PULG-S08-UU-WH	08/08	8.75	0.344	11.75	0.463
SWH120-PULG-S09-UU-WH	09/09	10.00	0.394	13.00	0.512
SWH120-PULG-S10-UU-WH	10/10	11.25	0.443	14.25	0.561
SWH120-PULG-S11-UU-WH	11/11	12.50	0.492	15.50	0.610
SWH120-PULG-S12-UU-WH	12/12	13.75	0.541	16.75	0.659
SWH120-PULG-S13-UU-WH	13/13	15.00	0.591	18.00	0.709
SWH120-PULG-S14-UU-WH	14/14	16.25	0.640	19.25	0.758
SWH120-PULG-S15-UU-WH	15/15	17.50	0.689	20.50	0.807



1.25 mm [.049"] Contact Centers, 120 Series Single Row Wafer
Straight/Right Angle/SMT/ HMT
Wafer Mates with SWH120 Series Single Row Housing

WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon6T
- Contact Material/Plating: Phosphor Bronze/Tin Overall
- Current Rating: 1 Amp
- Dielectric Withstanding Voltage: 500V AC
- UL Flammability Rating: V94-0

PART NUMBER OPTIONS

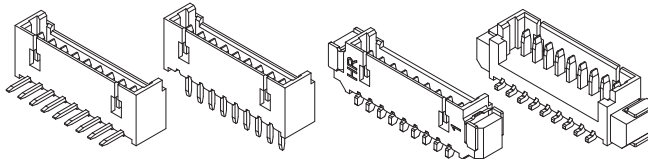
SWR120-NPEG-S10 - ST - BG

NUMBER OF POSITIONS

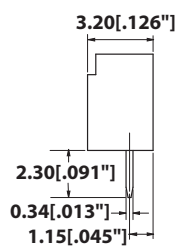
02 thru 15
See Chart Below

TERMINATION TYPE

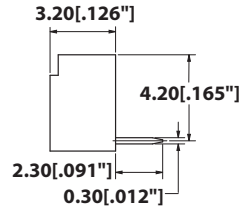
ST = STRAIGHT
RA = RIGHT ANGLE
SM = SURFACE MOUNT
HM = HORIZONTAL SURFACE MOUNT
See Below



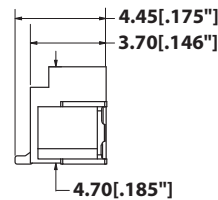
TERMINATION TYPE



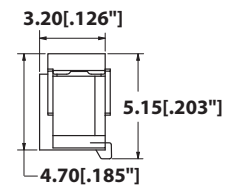
STRAIGHT (ST)



RIGHT ANGLE (RA)

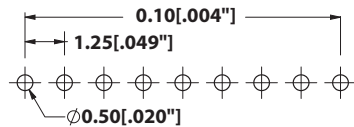


SURFACE MOUNT (SM)

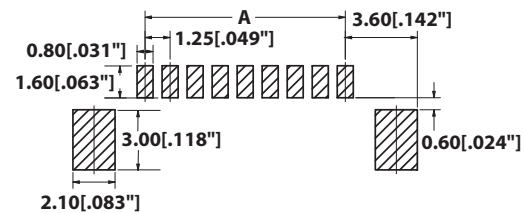


HORIZONTAL SURFACE MOUNT (HM)

RECOMMENDED PCB LAYOUT

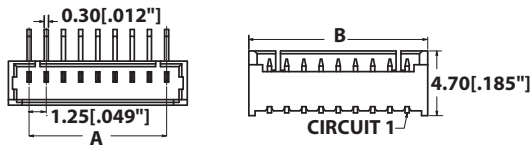


STRAIGHT (ST)
RIGHT ANGLE (RA)



HORIZONTAL SURFACE MOUNT (HM)
SURFACE MOUNT (SM)

DIMENSIONS



STRAIGHT (ST)
RIGHT ANGLE (RA)



HORIZONTAL SURFACE MOUNT (HM)
SURFACE MOUNT (SM)

POSITIONS/ CONTACTS	A		B	
	MM	[INCHES]	MM	[INCHES]
02/02	1.25	0.049	4.25	0.167
03/03	2.50	0.098	5.50	0.217
04/04	3.75	0.148	6.75	0.266
05/05	5.00	0.197	8.00	0.315
06/06	6.25	0.246	9.25	0.364
07/07	7.50	0.295	10.50	0.413
08/08	8.75	0.344	11.75	0.463
09/09	10.00	0.394	13.00	0.512
10/10	11.25	0.443	14.25	0.561
11/11	12.50	0.492	15.50	0.610
12/12	13.75	0.541	16.75	0.659
13/13	15.00	0.591	18.00	0.709
14/14	16.25	0.640	19.25	0.758
15/15	17.50	0.689	20.50	0.807

POSITIONS/ CONTACTS	A		B	
	MM	[INCHES]	MM	[INCHES]
02/02	1.25	0.049	7.75	0.305
03/03	2.50	0.098	9.00	0.354
04/04	3.75	0.148	10.25	0.404
05/05	5.00	0.197	11.50	0.453
06/06	6.25	0.246	12.75	0.502
07/07	7.50	0.295	14.00	0.551
08/08	8.75	0.344	15.25	0.600
09/09	10.00	0.394	16.50	0.650
10/10	11.25	0.443	17.75	0.699
11/11	12.50	0.492	19.00	0.748
12/12	13.75	0.541	20.25	0.797
13/13	15.00	0.591	21.50	0.846
14/14	16.25	0.640	22.75	0.896
15/15	17.50	0.689	24.00	0.945



2.00mm [.079"] Contact Centers, 201 Series Crimp Terminal and Housing

Terminal Suitable for SWH 201 Series Housing

Housing Suitable for SWT201 Series Terminal

Housing Mates with SWR201 Series Wafer

CRIMP TERMINAL SPECIFICATIONS

- Material: Phosphor Bronze
- Wire Range: AWG #24-#30
- Insulation O.D.: 1.50mm MAX
- Quantity Per Reel = 10,000 Pieces

PART NUMBER OPTIONS

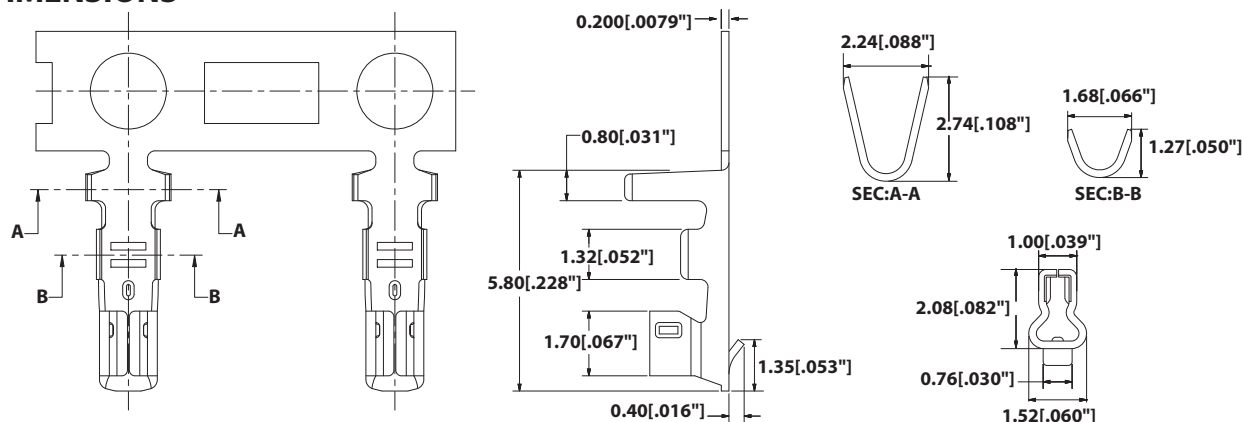
SWT201-UPEN-S01-UU-UU

CONTACT FINISH - RoHS Compliant

E = TIN OVERALL

P = GOLD FLASH OVERALL

DIMENSIONS



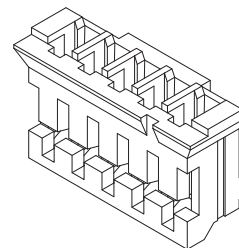
HOUSING SPECIFICATIONS

- Material: Nylon66, Color: White
- Operating Temperature: -25° C to +85° C
- UL Flammability Rating: V94-0

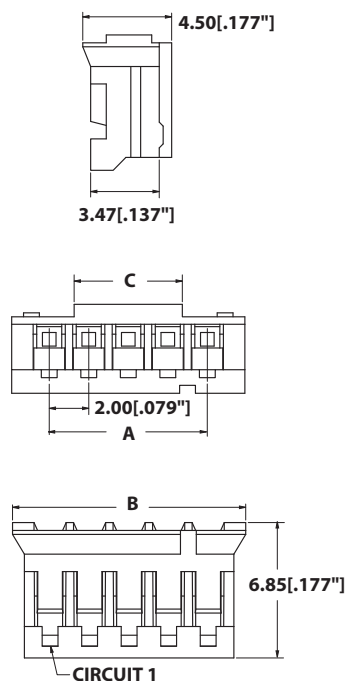
PART NUMBER OPTIONS

SWH201-NULN-S10-UU-WH

NUMBER OF POSITIONS
(CONTACTS PER ROW)



DIMENSIONS



Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]		C±0.20[.008"]	
		MM	[INCHES]	MM	[INCHES]	MM	[INCHES]
SWH201-NULN-S02-UU-WH	02/02	2.00	0.079	5.80	0.228	0.50	0.020
SWH201-NULN-S03-UU-WH	03/03	4.00	0.157	7.80	0.307	1.68	0.066
SWH201-NULN-S04-UU-WH	04/04	6.00	0.236	9.80	0.386	3.50	0.138
SWH201-NULN-S05-UU-WH	05/05	8.00	0.315	11.80	0.465	5.50	0.217
SWH201-NULN-S06-UU-WH	06/06	10.00	0.394	13.80	0.543	7.50	0.295
SWH201-NULN-S07-UU-WH	07/07	12.00	0.472	15.80	0.622	9.50	0.374
SWH201-NULN-S08-UU-WH	08/08	14.00	0.551	17.80	0.701	11.50	0.453
SWH201-NULN-S09-UU-WH	09/09	16.00	0.630	19.80	0.780	13.50	0.531
SWH201-NULN-S10-UU-WH	10/10	18.00	0.709	21.80	0.858	15.50	0.610
SWH201-NULN-S11-UU-WH	11/11	20.00	0.787	23.80	0.937	17.50	0.689
SWH201-NULN-S12-UU-WH	12/12	22.00	0.866	25.80	1.016	19.50	0.768
SWH201-NULN-S13-UU-WH	13/13	24.00	0.945	27.80	1.094	21.50	0.846
SWH201-NULN-S14-UU-WH	14/14	26.00	1.024	29.80	1.173	23.50	0.925
SWH201-NULN-S15-UU-WH	15/15	28.00	1.102	31.80	1.252	25.50	1.004
SWH201-NULN-S16-UU-WH	16/16	30.00	1.181	33.80	1.331	27.50	1.083
SWH201-NULN-S17-UU-WH	17/17	32.00	1.260	35.80	1.409	29.50	1.161
SWH201-NULN-S18-UU-WH	18/18	34.00	1.339	37.80	1.488	31.50	1.240



2.00mm [.079"] Contact Centers, 201 Series Single Row Wafer
Straight with Kinked End Pins
Wafer Mates with SWH201 Series Single Row Housing

WAFER SPECIFICATIONS

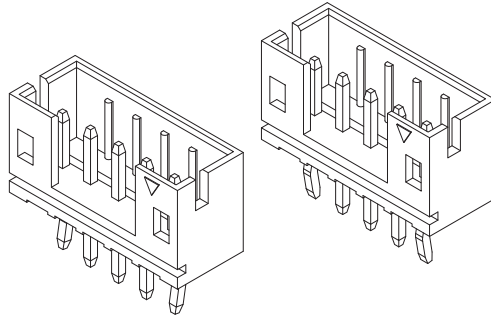
- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 2 Amps
- Dielectric Withstanding Voltage: 800V AC
- UL Flammability Rating: V94-0

PART NUMBER OPTIONS

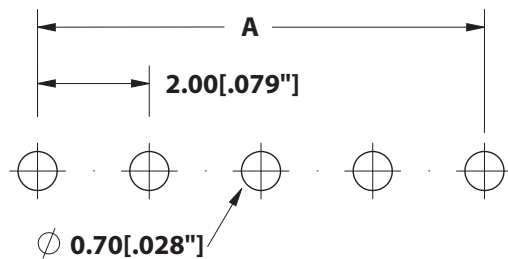
SWR201-NREN-S10-SA-WH

NUMBER OF POSITIONS
 02 thru 18
 See Chart Below

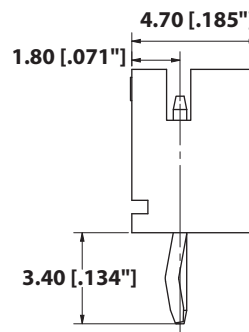
TERMINATION TYPE
 SA = END PINS KINK RIGHT
 SB = END PINS KINK LEFT
 See Below



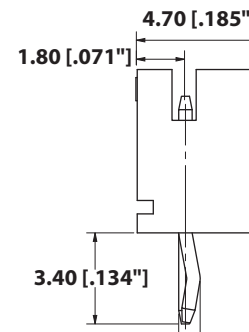
RECOMMENDED PCB LAYOUT



TERMINATION TYPE



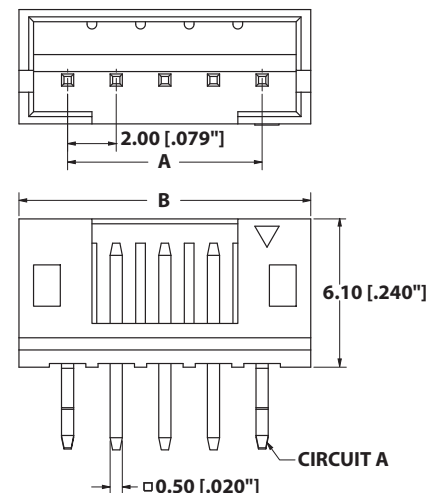
(SB) END PINS KINK LEFT



(SA) END PINS KINK RIGHT

Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWR201-NREN-S02-S-WH	02/02	2.00	0.079	6.00	0.236
SWR201-NREN-S03-S-WH	03/03	4.00	0.157	8.00	0.315
SWR201-NREN-S04-S-WH	04/04	6.00	0.236	10.00	0.394
SWR201-NREN-S05-S-WH	05/05	8.00	0.315	12.00	0.472
SWR201-NREN-S06-S-WH	06/06	10.00	0.394	14.00	0.551
SWR201-NREN-S07-S-WH	07/07	12.00	0.472	16.00	0.630
SWR201-NREN-S08-S-WH	08/08	14.00	0.551	18.00	0.709
SWR201-NREN-S09-S-WH	09/09	16.00	0.630	20.00	0.787
SWR201-NREN-S10-S-WH	10/10	18.00	0.709	22.00	0.866
SWR201-NREN-S11-S-WH	11/11	20.00	0.787	24.00	0.945
SWR201-NREN-S12-S-WH	12/12	22.00	0.866	26.00	1.024
SWR201-NREN-S13-S-WH	13/13	24.00	0.945	28.00	1.102
SWR201-NREN-S14-S-WH	14/14	26.00	1.024	30.00	1.181
SWR201-NREN-S15-S-WH	15/15	28.00	1.102	32.00	1.260
SWR201-NREN-S16-S-WH	16/16	30.00	1.181	34.00	1.339
SWR201-NREN-S17-S-WH	17/17	32.00	1.260	36.00	1.417
SWR201-NREN-S18-S-WH	18/18	34.00	1.339	38.00	1.496

DIMENSIONS





2mm [.079"] Contact Centers, 201 Series Single Row Wafer Right Angle with Kinked End Pins Wafer Mates with SWH201 Series Single Row Housing

SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 2 Amps
- Dielectric Withstanding Voltage: 800V AC
- UL Flammability Rating: V94-0

PART NUMBER OPTIONS

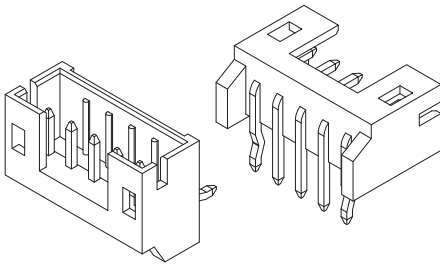
SWR201-NREN-S10 - RL - WH

NUMBER OF POSITIONS

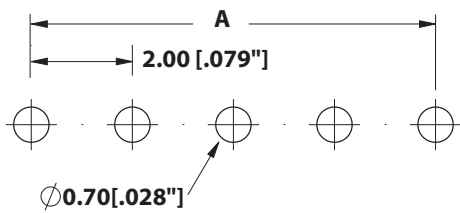
02 thru 16
See Chart Below

TERMINATION TYPE

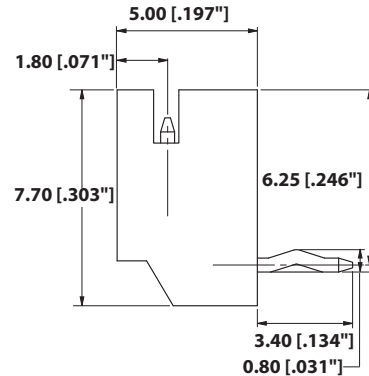
RL = Right Angle with Kinked End Pins
See Below



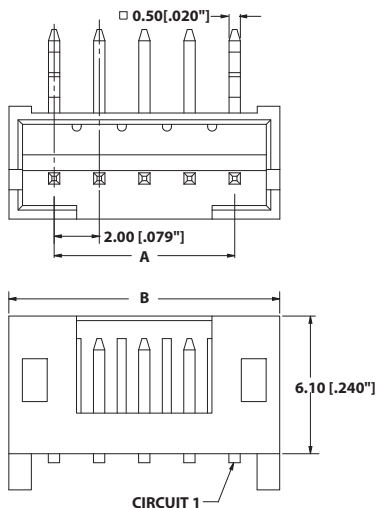
RECOMMENDED PCB LAYOUT



TERMINATION TYPE



DIMENSIONS



Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWR201-NREN-S02-RL-WH	02/02	2.00	0.079	6.00	0.236
SWR201-NREN-S03-RL-WH	03/03	4.00	0.157	8.00	0.315
SWR201-NREN-S04-RL-WH	04/04	6.00	0.236	10.00	0.394
SWR201-NREN-S05-RL-WH	05/05	8.00	0.315	12.00	0.472
SWR201-NREN-S06-RL-WH	06/06	10.00	0.394	14.00	0.551
SWR201-NREN-S07-RL-WH	07/07	12.00	0.472	16.00	0.630
SWR201-NREN-S08-RL-WH	08/08	14.00	0.551	18.00	0.709
SWR201-NREN-S09-RL-WH	09/09	16.00	0.630	20.00	0.787
SWR201-NREN-S10-RL-WH	10/10	18.00	0.709	22.00	0.866
SWR201-NREN-S11-RL-WH	11/11	20.00	0.787	24.00	0.945
SWR201-NREN-S12-RL-WH	12/12	22.00	0.866	26.00	1.024
SWR201-NREN-S13-RL-WH	13/13	24.00	0.945	28.00	1.102
SWR201-NREN-S14-RL-WH	14/14	26.00	1.024	30.00	1.181
SWR201-NREN-S15-RL-WH	15/15	28.00	1.102	32.00	1.260
SWR201-NREN-S16-RL-WH	16/16	30.00	1.181	34.00	1.339



**2mm [.079"] Contact Centers, 201 Series Single Row Wafer
SMT/ HMT
Wafer Mates with SWH201 Series Single Row Housing**

WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon6T
- Contact Material/Plating: Brass/Gold Flash Overall
- Current Rating: 2 Amps
- Dielectric Withstanding Voltage: 800V AC
- UL Flammability Rating: V94-0

PART NUMBER OPTIONS

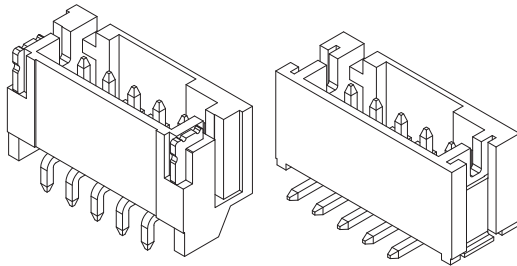
SWR201-NRPN-S10 - SM - BG

NUMBER OF POSITIONS

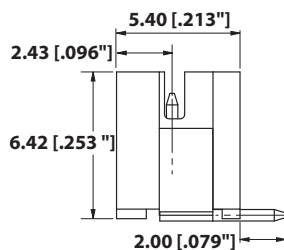
02 thru 16
See Chart Below

TERMINATION TYPE

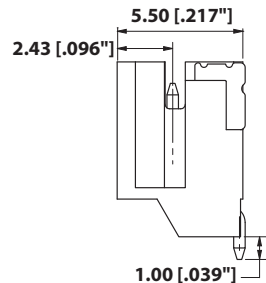
SM = SURFACE MOUNT
HM = HORIZONTAL SURFACE MOUNT
See Below



TERMINATION TYPE

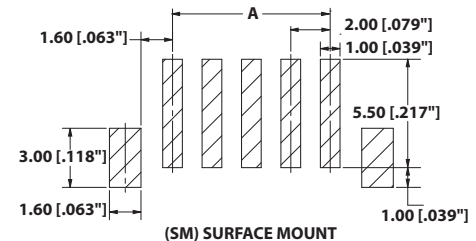


(SM) SIDE MOUNT

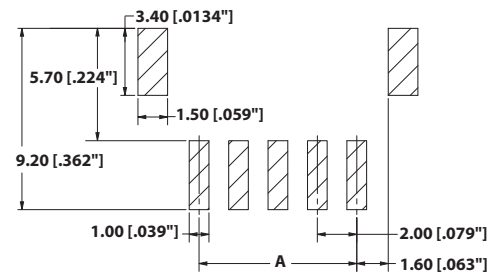


(HM) HORIZONTAL SURFACE MOUNT

RECOMMENDED PCB LAYOUT

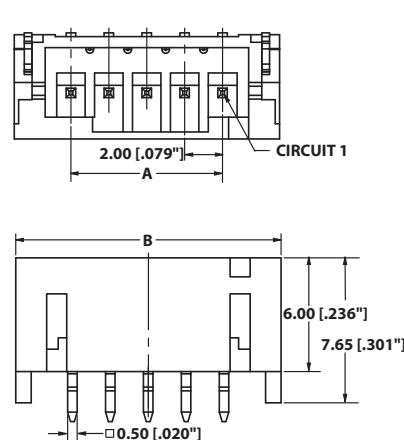


(SM) SURFACE MOUNT

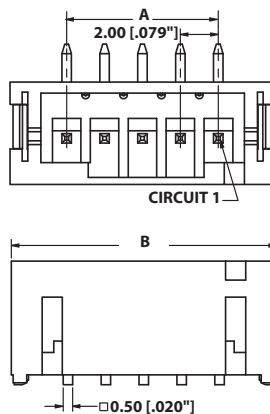


(HM) HORIZONTAL SURFACE MOUNT

DIMENSIONS



(HM) HORIZONTAL SIDE MOUNT



(SM) SIDE MOUNT

Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
	MM	[INCHES]	MM	[INCHES]
02/02	2.00	0.079	8.00	0.315
03/03	4.00	0.157	10.00	0.394
04/04	6.00	0.236	12.00	0.472
05/05	8.00	0.315	14.00	0.551
06/06	10.00	0.394	16.00	0.630
07/07	12.00	0.472	18.00	0.709
08/08	14.00	0.551	20.00	0.787
09/09	16.00	0.630	22.00	0.866
10/10	18.00	0.709	24.00	0.945
11/11	20.00	0.787	26.00	1.024
12/12	22.00	0.866	28.00	1.102
13/13	24.00	0.945	30.00	1.181
14/14	26.00	1.024	32.00	1.260
15/15	28.00	1.102	34.00	1.339
16/16	30.00	1.181	36.00	1.417



2.00mm [.079"] Contact Centers, 204 Series Dual Row Wafer
Straight/Right Angle
Wafer Mates with SWH204 Series Dual Row Housing

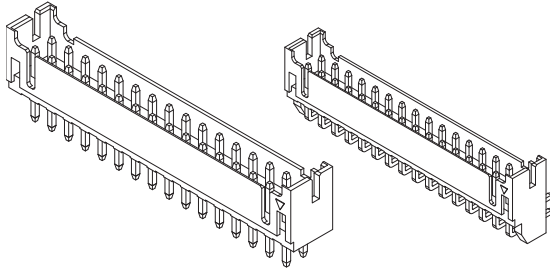
WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66, Color: Grey (Pantone 7528C)
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 3 Amps
- Dielectric Withstanding Voltage: 800V AC
- UL Flammability Rating: V94-0

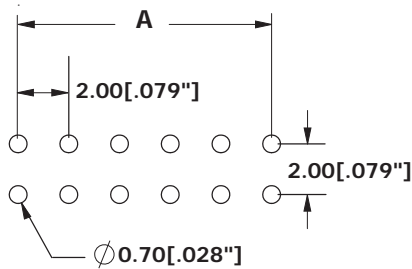
PART NUMBER OPTIONS

SWR204-NREN-D10-ST-GA

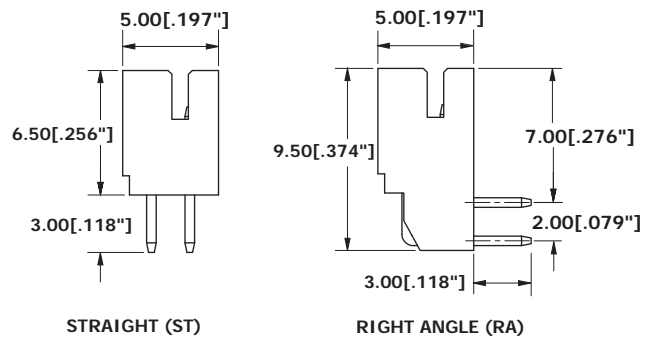
NUMBER OF POSITIONS | **TERMINATION TYPE**
 02 thru 20 | ST = STRAIGHT
 (e.g. 9 position has 18 contacts) | RA = RIGHT ANGLE



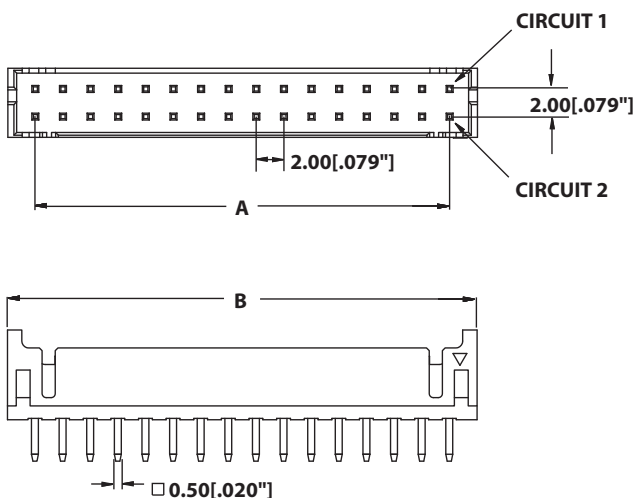
RECOMMENDED PCB LAYOUT



TERMINATION TYPE



DIMENSIONS



POSITIONS/ CONTACTS	A±0.20[.008"]		B±0.25[.010"]	
	MM	[INCHES]	MM	[INCHES]
02/04	2.00	0.079	6.00	0.236
03/06	4.00	0.157	8.00	0.315
04/08	6.00	0.236	10.00	0.394
05/10	8.00	0.315	12.00	0.472
06/12	10.00	0.394	14.00	0.551
07/14	12.00	0.472	16.00	0.630
08/16	14.00	0.551	18.00	0.709
09/18	16.00	0.630	20.00	0.787
10/20	18.00	0.709	22.00	0.866
11/22	20.00	0.787	24.00	0.945
12/24	22.00	0.866	26.00	1.024
13/26	24.00	0.945	28.00	1.102
14/28	26.00	1.024	30.00	1.181
15/30	28.00	1.102	32.00	1.260
16/32	30.00	1.181	34.00	1.339
17/34	32.00	1.260	36.00	1.417
18/36	34.00	1.339	38.00	1.496
19/38	36.00	1.417	40.00	1.575
20/40	38.00	1.496	42.00	1.654

2.54 mm[.100"] Contact Centers, 25X Series Crimp Terminal and 25X Series Housing
Terminal Suitable for SWH25X, SWH25A, SWH25B, SWH25C Series Housing
Housing Suitable for SWT25X Series Terminal
Housing Mates with SWR25X Series Wafer

CRIMP TERMINAL SPECIFICATIONS

- Wire Range: AWG #24-#30
- Insulation O.D.: 1.57mm MAX
- Quantity Per Reel = 10,000 Piece

PART NUMBER OPTIONS

SWT25X-U REC-S01-UU-UU

MATERIAL & CONTACT FINISH

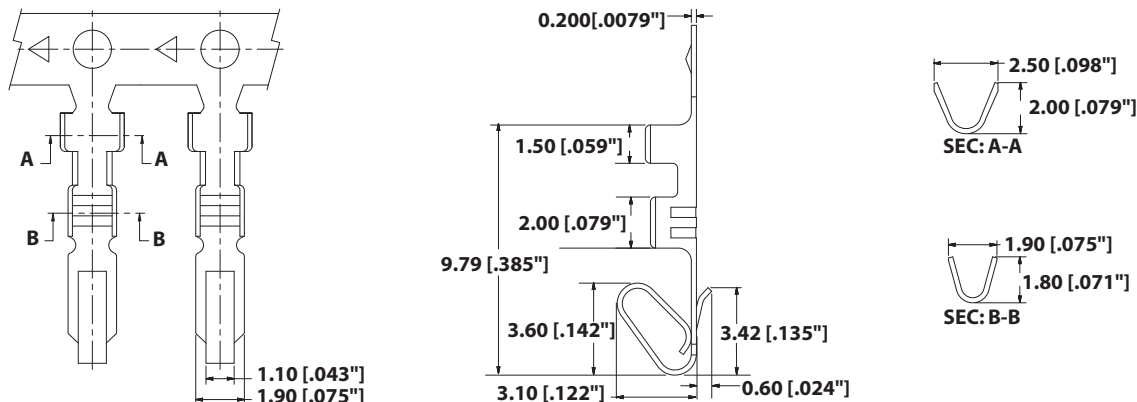
- RoHS Compliant

RE = BRASS, TIN OVERALL

PE = PHOSPHOR BRONZE, TIN OVERALL

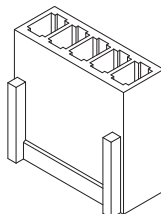
RP = BRASS, GOLD FLASH OVERALL

DIMENSIONS



HOUSING SPECIFICATIONS

- Material: Nylon66, Color: Beige
- Operating Temperature: -25° C to +85° C
- UL Flammability Rating: V94-2

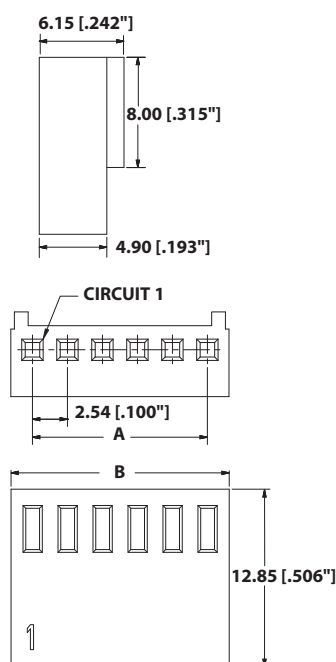


PART NUMBER OPTIONS

SWH25X-NULC-S10-UU-BA

— NUMBER OF POSITIONS
(CONTACTS PER ROW)

DIMENSIONS



Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWH25X-NULC-S02-UU-BA	02/02	2.54	0.100	5.68	0.224
SWH25X-NULC-S03-UU-BA	03/03	5.08	0.200	8.22	0.324
SWH25X-NULC-S04-UU-BA	04/04	7.62	0.300	10.76	0.424
SWH25X-NULC-S05-UU-BA	05/05	10.16	0.400	13.30	0.524
SWH25X-NULC-S06-UU-BA	06/06	12.70	0.500	15.84	0.624
SWH25X-NULC-S07-UU-BA	07/07	15.24	0.600	18.38	0.724
SWH25X-NULC-S08-UU-BA	08/08	17.78	0.700	20.92	0.824
SWH25X-NULC-S09-UU-BA	09/09	20.32	0.800	23.46	0.924
SWH25X-NULC-S10-UU-BA	10/10	22.86	0.900	26.00	1.024
SWH25X-NULC-S11-UU-BA	11/11	25.40	1.000	28.54	1.124
SWH25X-NULC-S12-UU-BA	12/12	27.94	1.100	31.08	1.224
SWH25X-NULC-S13-UU-BA	13/13	30.48	1.200	33.62	1.324
SWH25X-NULC-S14-UU-BA	14/14	33.02	1.300	36.16	1.424
SWH25X-NULC-S15-UU-BA	15/15	35.56	1.400	38.70	1.524
SWH25X-NULC-S16-UU-BA	16/16	38.10	1.500	41.24	1.624
SWH25X-NULC-S17-UU-BA	17/17	40.64	1.600	43.78	1.724
SWH25X-NULC-S18-UU-BA	18/18	43.18	1.700	46.32	1.824
SWH25X-NULC-S19-UU-BA	19/19	45.72	1.800	48.86	1.924
SWH25X-NULC-S20-UU-BA	20/20	48.26	1.900	51.40	2.024



2.54 mm [.100"] Contact Centers, 25X Series, Single Row Wafer Straight, Right Angle Wafer Mates with SWH25X Series Single Row Housing

WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 4 Amps
- Dielectric Withstanding Voltage: 1000V AC
- UL Flammability Rating: V94-2

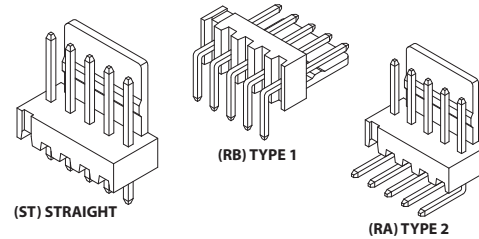
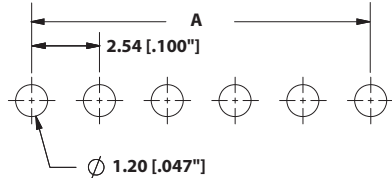
PART NUMBER OPTIONS

SWR25X-NREC-S10-ST-BA

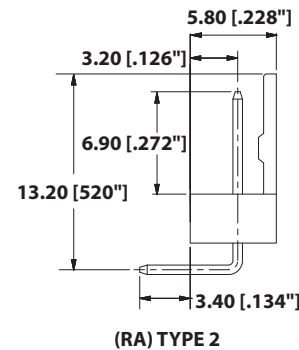
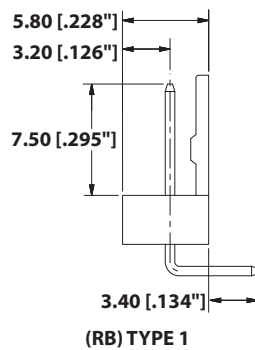
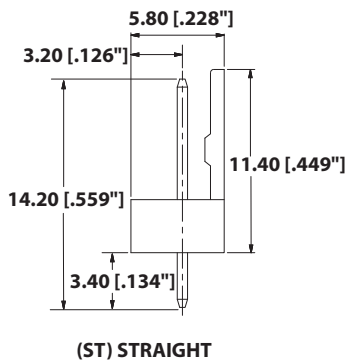
NUMBER OF POSITIONS
02 thru 20
See Chart Below

TERMINATION TYPE
ST = STRAIGHT
RB = RIGHT ANGLE, TYPE 1
RA = RIGHT ANGLE, TYPE 2
See Below

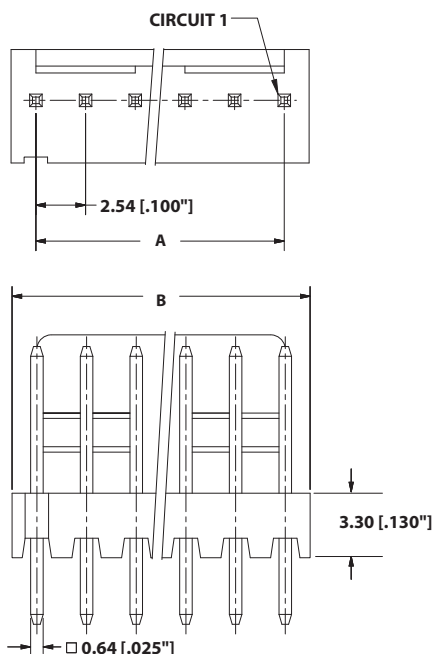
RECOMMENDED PCB LAYOUT



TERMINATION TYPE



DIMENSIONS



Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWR25X-NREC-S02-__-BA	02/02	2.54	0.100	5.08	0.200
SWR25X-NREC-S03-__-BA	03/03	5.08	0.200	7.62	0.300
SWR25X-NREC-S04-__-BA	04/04	7.62	0.300	10.16	0.400
SWR25X-NREC-S05-__-BA	05/05	10.16	0.400	12.70	0.500
SWR25X-NREC-S06-__-BA	06/06	12.70	0.500	15.24	0.600
SWR25X-NREC-S07-__-BA	07/07	15.24	0.600	17.78	0.700
SWR25X-NREC-S08-__-BA	08/08	17.78	0.700	20.32	0.800
SWR25X-NREC-S09-__-BA	09/09	20.32	0.800	22.86	0.900
SWR25X-NREC-S10-__-BA	10/10	22.86	0.900	25.40	1.000
SWR25X-NREC-S11-__-BA	11/11	25.40	1.000	27.94	1.100
SWR25X-NREC-S12-__-BA	12/12	27.94	1.100	30.48	1.200
SWR25X-NREC-S13-__-BA	13/13	30.48	1.200	33.02	1.300
SWR25X-NREC-S14-__-BA	14/14	33.02	1.300	35.56	1.400
SWR25X-NREC-S15-__-BA	15/15	35.56	1.400	38.10	1.500
SWR25X-NREC-S16-__-BA	16/16	38.10	1.500	40.64	1.600
SWR25X-NREC-S17-__-BA	17/17	40.64	1.600	43.18	1.700
SWR25X-NREC-S18-__-BA	18/18	43.18	1.700	45.72	1.800
SWR25X-NREC-S19-__-BA	19/19	45.72	1.800	48.26	1.900
SWR25X-NREC-S20-__-BA	20/20	48.26	1.900	50.80	2.000



2.54 mm [.100"] Contact Centers, 25A Series Single Row Housing Housing Suitable for SWT25X Series Terminal Housing Mates with SWR25A Series Wafer

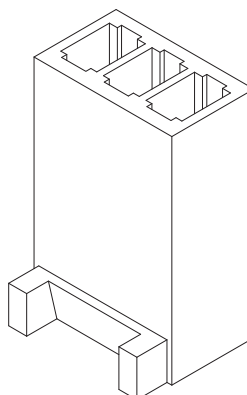
HOUSING SPECIFICATIONS

- Material: Nylon66, Color: Dark Red
- Operating Temperature: -25° C to +85° C
- UL Flammability Rating: V94-2

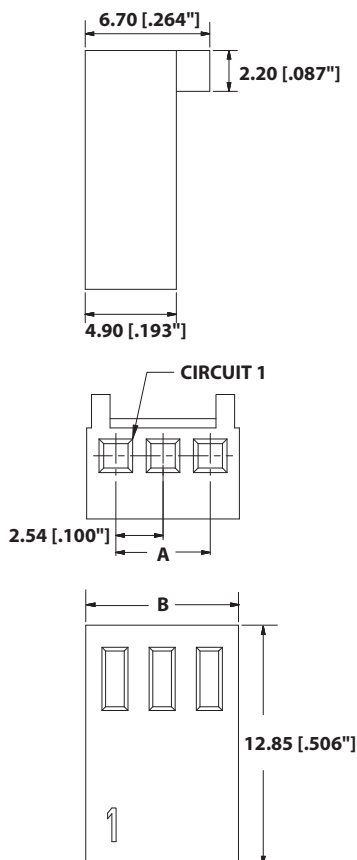
PART NUMBER OPTIONS

SWH25A-NULC-S10-UU-BR

NUMBER OF POSITIONS
(CONTACTS PER ROW)



DIMENSIONS



Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWH25A-NULC-S02-UU-BR	02/02	2.54	0.100	5.68	0.224
SWH25A-NULC-S03-UU-BR	03/03	5.08	0.200	8.22	0.324
SWH25A-NULC-S04-UU-BR	04/04	7.62	0.300	10.76	0.424
SWH25A-NULC-S05-UU-BR	05/05	10.16	0.400	13.30	0.524
SWH25A-NULC-S06-UU-BR	06/06	12.70	0.500	15.84	0.624
SWH25A-NULC-S07-UU-BR	07/07	15.24	0.600	18.38	0.724
SWH25A-NULC-S08-UU-BR	08/08	17.78	0.700	20.92	0.824
SWH25A-NULC-S09-UU-BR	09/09	20.32	0.800	23.46	0.924
SWH25A-NULC-S10-UU-BR	10/10	22.86	0.900	26.00	1.024
SWH25A-NULC-S11-UU-BR	11/11	25.40	1.000	28.54	1.124
SWH25A-NULC-S12-UU-BR	12/12	27.94	1.100	31.08	1.224
SWH25A-NULC-S13-UU-BR	13/13	30.48	1.200	33.62	1.324
SWH25A-NULC-S14-UU-BR	14/14	33.02	1.300	36.16	1.424
SWH25A-NULC-S15-UU-BR	15/15	35.56	1.400	38.70	1.524
SWH25A-NULC-S16-UU-BR	16/16	38.10	1.500	41.24	1.624
SWH25A-NULC-S17-UU-BR	17/17	40.64	1.600	43.78	1.724
SWH25A-NULC-S18-UU-BR	18/18	43.18	1.700	46.32	1.824
SWH25A-NULC-S19-UU-BR	19/19	45.72	1.800	48.86	1.924
SWH25A-NULC-S20-UU-BR	20/20	48.26	1.900	51.40	2.024

2.54 mm [.100"] Contact Centers, 25A Series Single Row Wafer
Straight, Right Angle
Wafer Mates with SWH25A Series Single Row Housing



WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66, Color: Dark Red
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 4 Amps
- Dielectric Withstanding Voltage: 1000V AC
- UL Flammability Rating: V94-2

PART NUMBER OPTIONS

SWR25A-NREC-S10-ST-BR

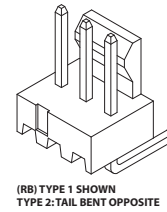
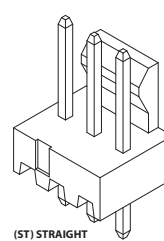
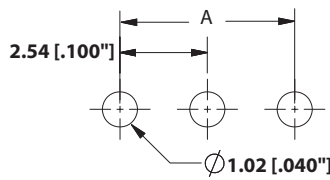
NUMBER OF POSITIONS

02 thru 20
See Chart Below

TERMINATION TYPE

ST = STRAIGHT
RB = RIGHT ANGLE, TYPE 1
RA = RIGHT ANGLE, TYPE 2
See Below

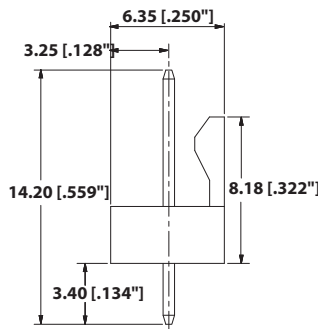
RECOMMENDED PCB LAYOUT



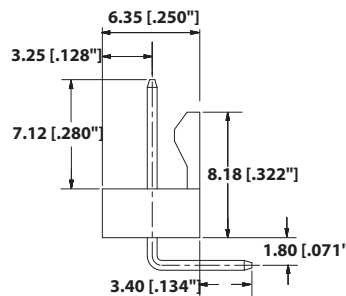
(RB) TYPE 1 SHOWN
TYPE 2: TAIL BENT OPPOSITE

(ST) STRAIGHT

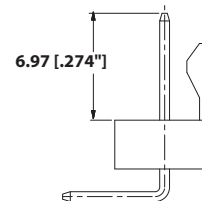
TERMINATION TYPE



(ST) STRAIGHT

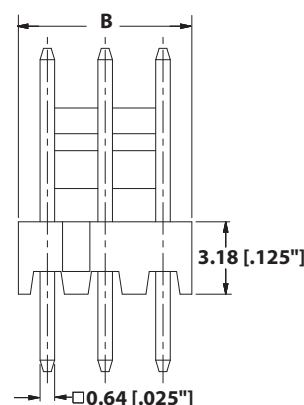
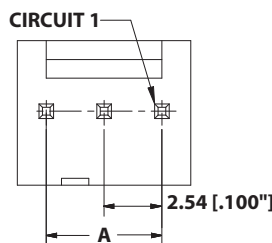


(RB) TYPE 1



(RA) TYPE 2

DIMENSIONS



Part Number	Positions/ Contacts	A±0.20[.008"]		B±0.25[.010"]	
		MM	[INCHES]	MM	[INCHES]
SWR25A-NREC-S02-__-BR	02/02	2.54	0.100	5.08	0.200
SWR25A-NREC-S03-__-BR	03/03	5.08	0.200	7.62	0.300
SWR25A-NREC-S04-__-BR	04/04	7.62	0.300	10.16	0.400
SWR25A-NREC-S05-__-BR	05/05	10.16	0.400	12.70	0.500
SWR25A-NREC-S06-__-BR	06/06	12.70	0.500	15.24	0.600
SWR25A-NREC-S07-__-BR	07/07	15.24	0.600	17.78	0.700
SWR25A-NREC-S08-__-BR	08/08	17.78	0.700	20.32	0.800
SWR25A-NREC-S09-__-BR	09/09	20.32	0.800	22.86	0.900
SWR25A-NREC-S10-__-BR	10/10	22.86	0.900	25.40	1.000
SWR25A-NREC-S11-__-BR	11/11	25.40	1.000	27.94	1.100
SWR25A-NREC-S12-__-BR	12/12	27.94	1.100	30.48	1.200
SWR25A-NREC-S13-__-BR	13/13	30.48	1.200	33.02	1.300
SWR25A-NREC-S14-__-BR	14/14	33.02	1.300	35.56	1.400
SWR25A-NREC-S15-__-BR	15/15	35.56	1.400	38.10	1.500
SWR25A-NREC-S16-__-BR	16/16	38.10	1.500	40.64	1.600
SWR25A-NREC-S17-__-BR	17/17	40.64	1.600	43.18	1.700
SWR25A-NREC-S18-__-BR	18/18	43.18	1.700	45.72	1.800
SWR25A-NREC-S19-__-BR	19/19	45.72	1.800	48.26	1.900
SWR25A-NREC-S20-__-BR	20/20	48.26	1.900	50.80	2.000



2.54 mm [.100"] Contact Centers, 25B Series Single Row Housing and Wafer

Straight and Right angle

Housing Suitable for SWT25X Series Terminal
Housing Mates with SWR25B Series Wafer
Wafer Mates with SWH25B Series Single Row Housing

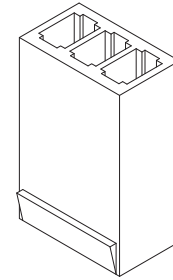
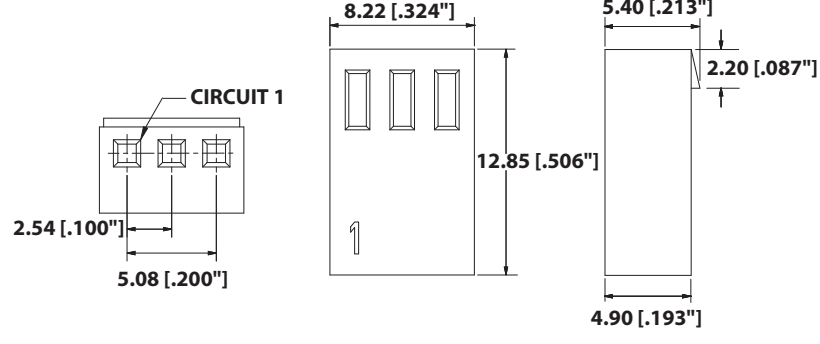
HOUSING SPECIFICATIONS

- Material: Nylon66, Color: Dark Red
- Operating Temperature: -25° C to +85° C
- UL Flammability Rating: V94-2

PART NUMBER OPTION

SWH25B-NULC-S03-UU-BR

DIMENSIONS



WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 4 Amps
- Dielectric Withstanding Voltage: 1000V AC
- UL Flammability Rating: V94-0

PART NUMBER OPTIONS

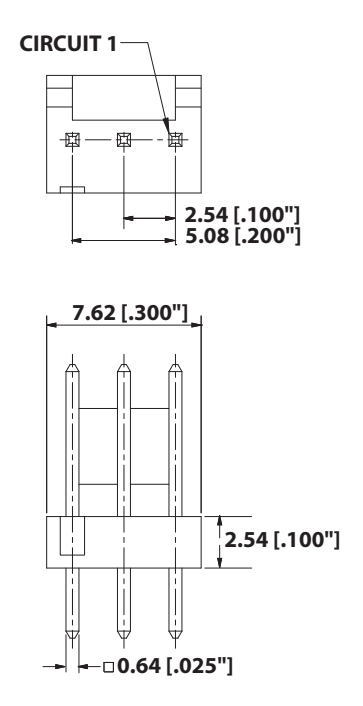
SWR25B-NREC-S03-ST-WH

TERMINATION TYPE

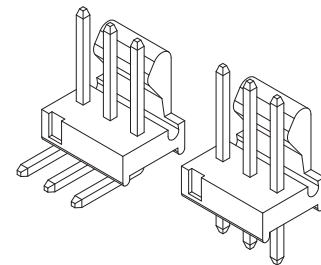
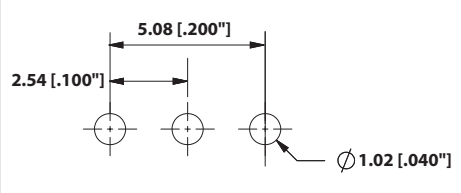
ST = STRAIGHT

RA = RIGHT ANGLE

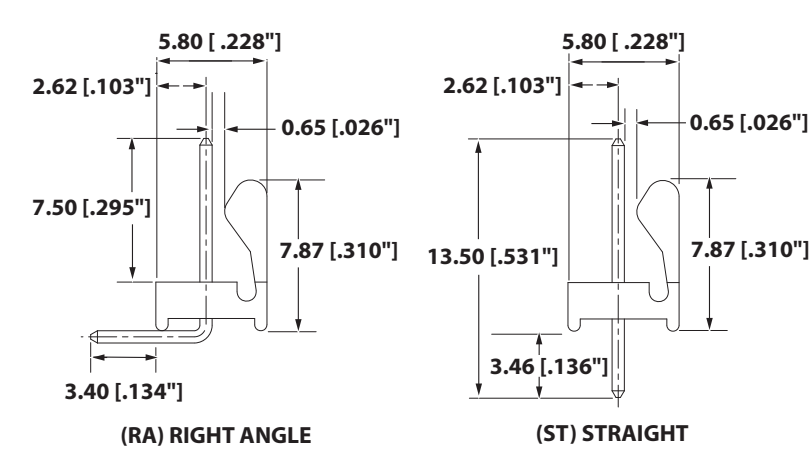
DIMENSIONS



RECOMMENDED PCB LAYOUT



TERMINATION TYPE



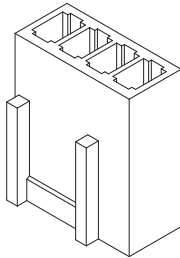
2.54 mm[.100"] Contact Centers, 25C Series Single Row Housing and Wafer Straight

**Housing Suitable for SWT25X Series Terminal
Housing Mates with SWR25C Series Wafer**

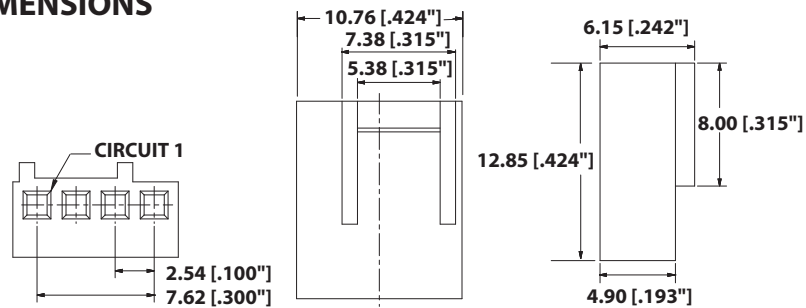
HOUSING SPECIFICATIONS

- Material: Nylon66, Color: White
- Operating Temperature: -25° C to +85° C
- UL Flammability Rating: V94-0

PART NUMBER OPTION
SWH25C-NULC-S04-UU-WH



DIMENSIONS



WAFER SPECIFICATIONS

- Operating Temperature: -25° C to +85° C
- Insulator Material: Nylon66
- Contact Material/Plating: Brass/Tin Overall
- Current Rating: 4 Amps
- Dielectric Withstanding Voltage: 1000V AC

PART NUMBER OPTIONS

SWR25C-NREC-S04 - ST - WH- Mxx

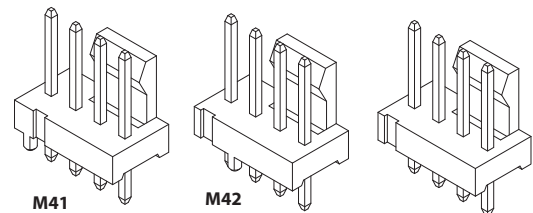
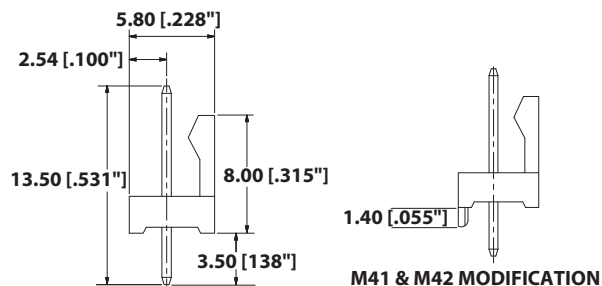
—MODIFICATION CODE

(OMIT FOR STANDARD)

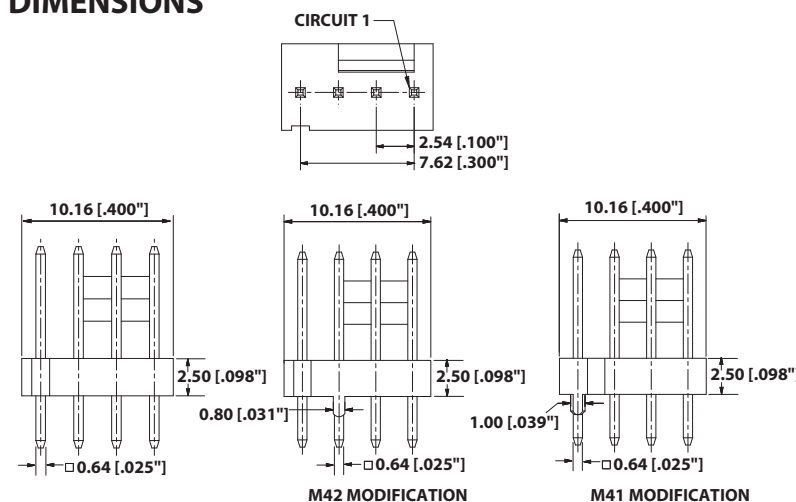
M41 = POST AT POSITION 4

M42 = POST AT POSITION 3

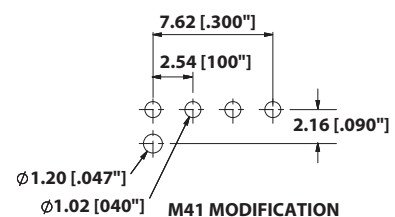
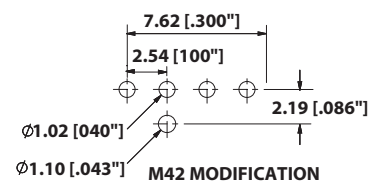
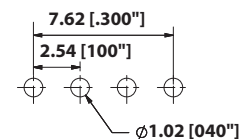
TERMINATION TYPE



DIMENSIONS



RECOMMENDED PCB LAYOUT





GENERAL SPECIFICATIONS

RoHS COMPLIANT

RoHS
COMPLIANT

All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 127 of this catalog.

MATERIALS

To determine Assembly Operating Temperature, take the lower of two temperatures

			Operating Temperature	Processing Temperature
Insulator:				
Standard	PBT, Valox*	Glass filled Thermoplastic Polyester	-65°C to +130°C	260°C / 10 Seconds
Special	PPS, Ryton*	Glass/Mineral filled Polyphenylene Sulfide, Green	-65°C to +220°C	260°C / 120 Seconds
Special	PPS, Ryton*	Glass filled Polyphenylene Sulfide, Brown	-65°C to +200°C	260°C / 120 Seconds
Special	PA9T	High Temperature Polyamide	-65°C to +150°C	260°C / 120 Seconds
Special	Peek	Glass filled Polyetheretherketone	-65°C to +250°C	

Contacts:

Standard	Phosphor Bronze (Available in All Contact Styles)	-65°C to +125°C
Special	Beryllium Copper (Consult Factory)	-65°C to +150°C
Special	Spinodal** (Consult Factory)	-65°C to +200°C
Special	Beryllium Nickel (Consult Factory)	-65°C to +300°C

Plating:

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

UL/CUL File Number: E64287 Section 2

Cage Code: 31223

* Or equivalent.

** Consult factory for special soldering guidelines.

MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

Special Insertion/Withdrawal forces available upon request

ELECTRICAL PERFORMANCE (Per Mil-C-21097C)

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

Contact Centers: .100"[2.54mm] .125"[3.18mm] .150"[3.81mm] .156"[3.96mm]

Voltage: 750 VAC 750 VAC 900 VAC 950 VAC

Current Rating: 3 to 5 amperes (amps) per contact

Voltage Drop: 30 Milli volt at rated current

Contact Resistance: 30 Milli ohm maximum at rated current

Registered Trademarks

Sabic Innovative Plastics: Valox

Gardner-Denver Co.: Wire Wrap

Phillips 66: Ryton

Ametek: Spinodal

RTP Compounder: PEEK

Underwriters Labs: UL

Sullins Electronics: Sullins

Sullins Electronics: Zero Lead Time



MP - 0 100 - 22 - D W - 5 xxx

PLATING - RoHS Compliant

ALL PLATINGS ARE LEAD FREE AND HAVE
.000050" NICKEL UNDERPLATE

	Contact Surface	Termination
*MPSL =	.000010" Gold	.000100" Pure Tin Matte
*EMPSL =	.000010" Gold	.000100" Pure Tin Matte
*MPL =	.000100" Overall Pure Tin, Matte	
*EMPL =	.000100" Overall Pure Tin, Matte	
MP =	.000010" Overall Gold	
EMP =	.000010" Overall Gold	
MPP =	Spinodal Contact Material (Overall Gold Only)	
EMPP =	Spinodal Contact Material (Overall Gold Only)	

* Requires 'K' Modification Code

Platings that start with 'E' are for Economy Eyelet Only
Other Plating and thicknesses available upon request.

INSULATOR MATERIAL

All Materials are U.L. Approved 94V-0

- 0 = PBT, Blue
- 1 = PPS, Brown
- 2 = PBT, Green
- 3 = PBT, Black
- 4 = PA9T, Black
- 5 = PPS, Black
- 6 = PPS, Green
- 7 = PPS, Brown
- 8 = Peek, Natural

CONTACT CENTERS

- 100 = .100" [2.54mm]
- 125 = .125" [3.18mm]
- 150 = .150" [3.84mm]
- 156 = .156" [3.96mm]

NUMBER OF POSITIONS

02 - 70 Contacts Per Row

READOUT

D = Dual Row

TERMINATION TYPE

- FS = .045" Square Tails - .720" Insulator Height
- P = Solder Eyelet - .431" Insulator Height
- PE = Economy Eyelet - .431" Insulator Height,
Card Extender, .156" only
- R = .026" Round Tails - .610" Insulator Height,
- S = Dip Solder - .431" Insulator Height
- SE = Card Extender - .431" Insulator Height
- W = .025" Square Wire Wrap -
.610" Insulator Height
- WE = .025" Square Card Extender -
.610" Insulator Height

MOUNTING STYLE

- 1 = **.125" Clearance Holes**
.245" Ears, .431" Insulator Height
.250" Flush Ears, .610" Insulator Height
- 2 = **#4-40 Threaded Insert**
.245" Ears, .431" Insulator Height
.250" Flush Ears, .610" Insulator Height
- 3 = **Floating Bobbin**
.220" Ears not Including Bobbin
on All Connectors
(Flush Ears on .610 Insulator Height)
- 4 = **No Mounting Ears**
All Connectors
- 5 = **Raised with .125" Clearance Holes**
Wire Wrap Only, .610" Insulator Height
- 6 = **Raised with #4-40 Threaded Insert**
Wire Wrap Only, .610" Insulator Height
- 8 = **.125" Side Holes** (Cross Drilled)
- 9 = **One Ear, .125" Clearance Hole**
Dip Solder & Eyelet
- 10 = **One Ear, #4-40 Threaded Insert**
Dip Solder & Eyelet
- 11 = **.142" Mounting Holes**
.431" Insulator Height, Dip Solder, Eyelet
.610" Insulator Height, Wire Wrap
- 12 = **.128" Clearance Holes**
.431" Insulator Height, Dip Solder & Eyelet
.610" Insulator Height, Wire Wrap
- 13 = **Flush Ears, .128" Clearance Holes**
.430" Ears with Pad on .610" Insulator
Height, Wire Wrap Only
- 14 = **.142" Side Holes** (Cross Drilled)
.431" Insulator Height, Dip Solder, Eyelet
.610" Insulator Height, Wire Wrap
- 15 = **Flush Ears, .125" Clearance Holes**
.190" Ears, No Pad
.610" Insulator Height, Wire Wrap Only
- 16 = **Flush .250" Ears to top of the
Card Entry Side of the Connector,**
.610" Insulator Height, Wire Wrap Only
- 18 = **Flush Ears, .125" Side Holes**
(Cross Drilled)
- 19 = **.152" Clearance Holes**
.610" Insulator Height, Wire Wrap Only
- 58 = **Raised Ears, .125" Side Holes**
(Cross Drilled)
- 81 = **Flush Ears, .125" Side Holes**
.250" Ears with Pad, .610" Insulator Height,
Wire Wrap
- 86 = **Side Holes with #4-40 Threaded Insert**
.250" Ears with Pad, .610" Insulator Height

MODIFICATION CODE

CONSULT FACTORY FOR OTHER OPTIONS

- A = **Contacts Loaded one side only**
- B = **Center Barrier for 28/56 -**
.156" Dip Solder & Eyelet
- C = **.030" Longer Cardslot and
Mounting Hole Centers for 22/44,**
All .156" (Consult Factory)
- D = **.000050" Gold Plating -**
(Consult Factory)
- E9 = **.200" Row Spacing on .156"
Contact Centers**
- F = **6.802" Cardslot for 43/86**
.156" Eyelet & Wire Wrap Only
- F9 = **6.802" Cardslot and .200" Row
Spacing for 43/86 Dip Solder Only**
- G = **.000030" Gold Plating on Contact
Surface; .000010" Gold Overall**
- H = **.190" Contact Length for .025"
Square & .026" Round Contacts**
.250" Contact Length without
Standoffs
- J = **Low Insertion Force**
- K = **MPSL - Selective Gold with Pure
Tin, Matte Plating on Tails**
MPL - Overall Pure Tin, Matte
- L = **.140" Contact Length for**
.156" Dip Solder Only
- M = **Pad on Bottom of Mounting Ears**
for .156", .431" Insulator Height,
Dip Solder & Eyelet Only
- N = **Hi-light Contact ID on Bottom**
(Consult Factory)
- P = **Engraving Reversed**
(Consult Factory)
- Q = **Right Angle Connector Contacts
Untrimmed**
(Requires 'R' Modification Code)
- R = **Right Angle Connectors**
- S = **Shorter Overall Length**
- T = **Center Standoffs Removed**
.100" & .125" Wire Wrap Only
- TT = **No Standoffs**
- U = **.000020" Gold Plating**
- X9 = **.200" Row Spacing for**
.100" & .156" Dip Solder Only
.250" Row Spacing for
.125" Dip Solder Only
- Y = **Beryllium Copper Contacts**
- Z = **Standoffs on .156" Wire Wrap**

See applicable specification pages for more information.

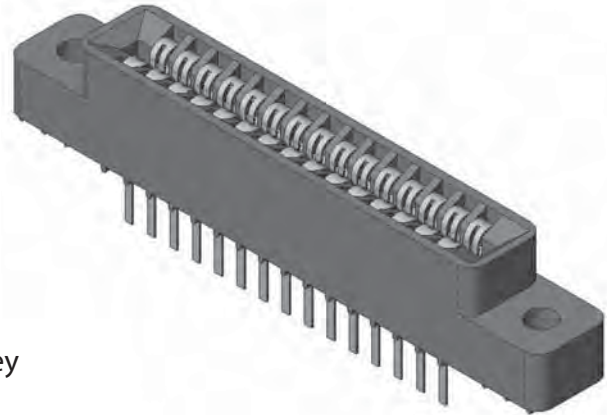
Specifications are subject to change without notice.



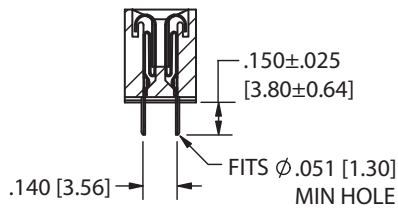
**.100" [2.54 mm] Contact Centers, .431" [10.95 mm] Insulator Height,
Dip Solder**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- Row Spacing Available in .140" or .200"
(Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

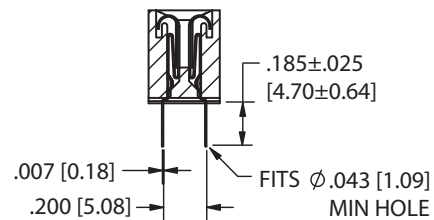


TERMINATION TYPE



**DIP SOLDER (S)
.140" ROW SPACING**

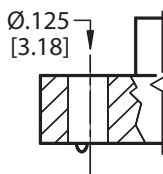
Example P/N: MP~~S~~L-0100-10-DS-1K



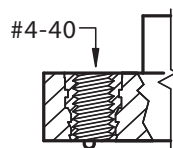
**DIP SOLDER (S)
.200" ROW SPACING
USE 'X9' MODIFICATION CODE**

Example P/N: MP~~S~~L-0100-10-DS-1X9K

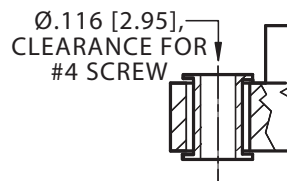
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface	Termination
*MPSL = .000010" Gold	.000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte	
MP = .000010" Overall Gold	

*Requires 'K' Modification Code

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)
X9 = .200" Row Spacing

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

TERMINATION TYPE (See Opposite Page)
S = Dip Solder

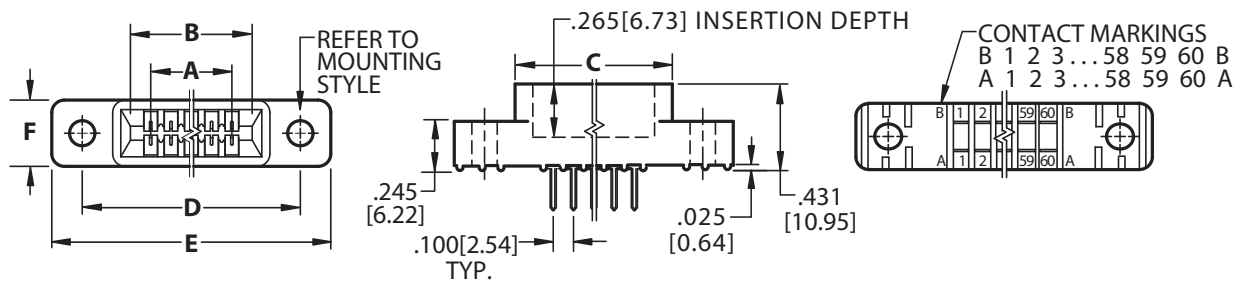
READOUT
D = Dual

Part Number Example: MPSL - 0 100 - 10 - D S - 1 K

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



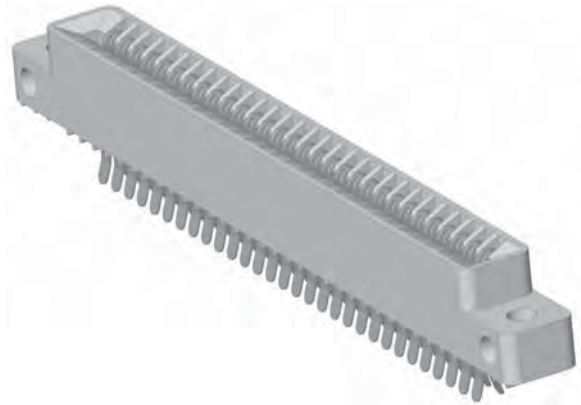
POSITIONS/ CONTACTS	INCHES					F±.005	[MILLIMETERS]					F±0.13
	A±.008	B±.008	C±.015	D±.010	E±.020		A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



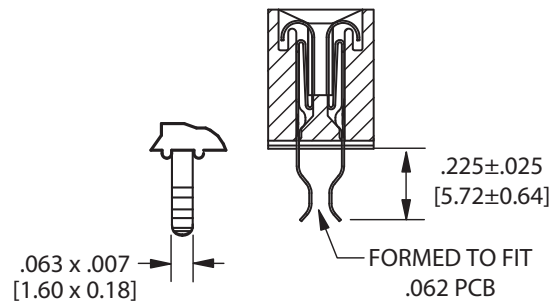
**.100" [2.54 mm] Contact Centers, .431" [10.95 mm] Insulator Height,
Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008" [1.57 \pm 0.20]$ PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: $260^{\circ}\text{C} / 10$ seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0003-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



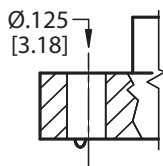
TERMINATION TYPE



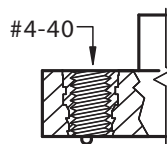
CARD EXTENDER (SE)

Example P/N: MP~~S~~L-0100-10-D~~S~~E-1K

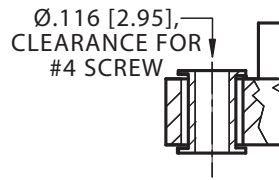
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

PLATING - RoHS Compliant All Platings are Lead Free and have .000050" Nickel Underplate Contact Surface Termination *MPSL = .000010" Gold *MPL = .000100" Overall Pure Tin, Matte MP = .000010" Overall Gold * Requires 'K' Modification Code Other Plating and thicknesses available upon request	INSULATOR MATERIAL** 0 = PBT	CONTACT CENTERS 100 = .100" [2.54mm]	NUMBER OF POSITIONS Contacts Per Row (See Position Chart Below)	MPSL - 0 100 - 10 - D SE - 1 K	PLATING MODIFICATION CODE** K = Required on Tin Plating Omit for MP Plating (Overall Gold)	MOUNTING STYLE (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 3 = Floating Bobbin 4 = No Mounting	TERMINATION TYPE (See Opposite Page) SE = Card Extender	READOUT D = Dual
--	--	--	---	---------------------------------------	---	--	---	----------------------------

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.

Technical drawings of a card edge connector showing top, side, and end views with dimension labels A through F and specific values in inches and millimeters.

Top View Dimensions:

- A: Contact pitch
- B: Contact width
- C: Contact length
- D: Contact height
- E: Contact thickness
- F: Mounting hole diameter

Side View Dimensions:

- .265[6.73] INSERTION DEPTH
- .245[6.22]
- .431 [10.95]
- .025[.64]
- .100[2.54]

End View Dimensions:

- CONTACT MARKINGS: B 1 2 3...58 59 60 B, A 1 2 3...58 59 60 A

REFER TO MOUNTING STYLE

REFER TO TERMINATION TYPE

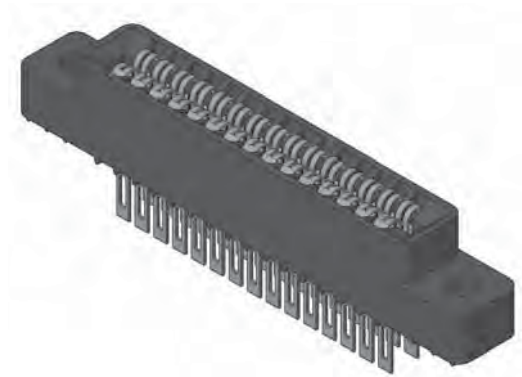
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



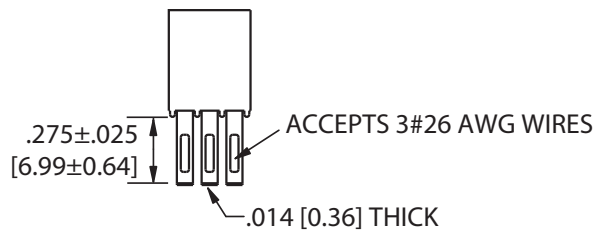
**.100" [2.54 mm] Contact Centers, .431" [10.95 mm] Insulator Height,
Eyelet**

SPECIFICATIONS

- Accommodates $.062" \pm .008" [1.57 \pm 0.20]$ PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0003-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



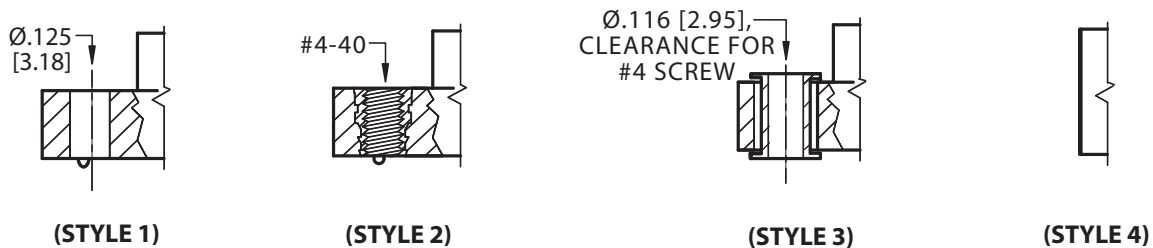
TERMINATION TYPE



EYELET (P)

Example P/N: MP-0100-10-DP-1

MOUNTING STYLE





PART NUMBER OPTIONS

MPL - 0 100 - 10 - D P - 1 K

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

* Requires 'K' Modification Code

Other Plating and thicknesses available upon request

INSULATOR MATERIAL**

0 = PBT

CONTACT CENTERS

100 = .100" [2.54mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

PLATING MODIFICATION CODE**

K = Required on Tin Plating

Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole

2 = #4-40 Threaded Insert

3 = Floating Bobbin

4 = No Mounting

TERMINATION TYPE (See Opposite Page)

P = Pierced Eyelet, .014" Thick

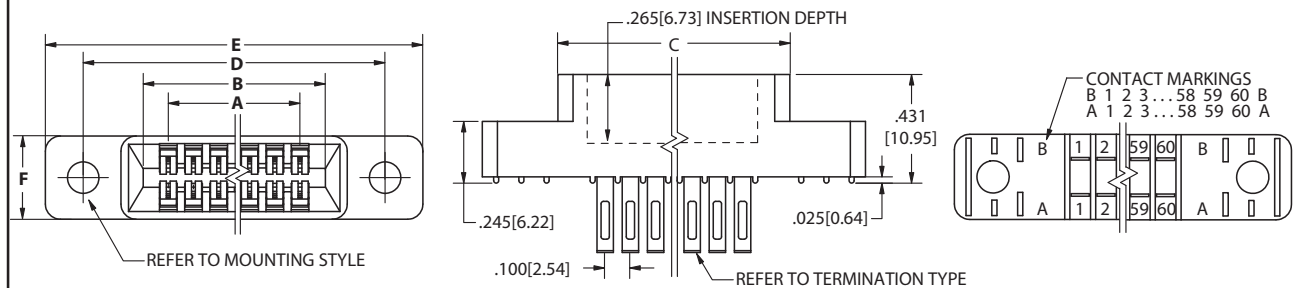
READOUT

D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



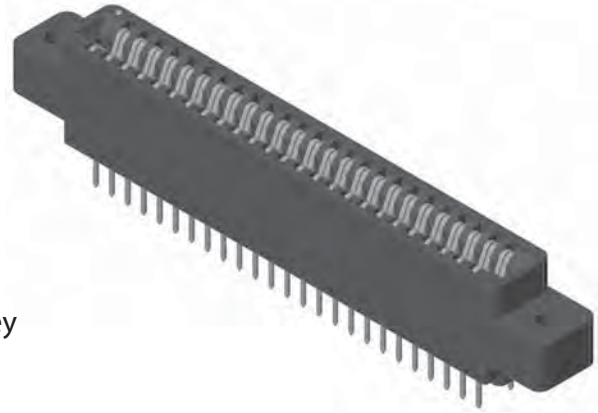
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
05/10	0.400	0.600	0.775	1.075	1.375	0.330	10.16	15.24	19.69	27.31	34.93	8.38
06/12	0.500	0.700	0.875	1.175	1.475		12.70	17.78	22.23	29.85	37.47	
07/14	0.600	0.800	0.975	1.275	1.575		15.24	20.32	24.77	32.39	40.01	
08/16	0.700	0.900	1.075	1.375	1.675		17.78	22.86	27.31	34.93	42.55	
10/20	0.900	1.100	1.275	1.575	1.875		22.86	27.94	32.39	40.01	47.63	
12/24	1.100	1.300	1.475	1.775	2.075		27.94	33.02	37.47	45.09	52.71	
13/26	1.200	1.400	1.575	1.875	2.175		30.48	35.56	40.01	47.63	55.25	
15/30	1.400	1.600	1.775	2.075	2.375		35.56	40.64	45.09	52.71	60.33	
17/34	1.600	1.800	1.975	2.275	2.575		40.64	45.72	50.17	57.79	65.41	
18/36	1.700	1.900	2.075	2.375	2.675		43.18	48.26	52.71	60.33	67.95	
19/38	1.800	2.000	2.175	2.475	2.775		45.72	50.80	55.25	62.87	70.49	
20/40	1.900	2.100	2.275	2.575	2.875		48.26	53.34	57.79	65.41	73.03	
22/44	2.100	2.300	2.475	2.775	3.075		53.34	58.42	62.87	70.49	78.11	
25/50	2.400	2.600	2.775	3.075	3.375		60.96	66.04	70.49	78.11	85.73	
26/52	2.500	2.700	2.875	3.175	3.475		63.50	68.58	73.03	80.65	88.27	
28/56	2.700	2.900	3.075	3.375	3.675		68.58	73.66	78.11	85.73	93.35	
30/60	2.900	3.100	3.275	3.575	3.875	0.400	73.66	78.74	83.19	90.81	98.43	10.16
31/62	3.000	3.200	3.375	3.675	3.975		76.20	81.28	85.73	93.35	100.97	
35/70	3.400	3.600	3.775	4.075	4.375		86.36	91.44	95.89	103.51	111.13	
36/72	3.500	3.700	3.875	4.175	4.475		88.90	93.98	98.43	106.05	113.67	
40/80	3.900	4.100	4.275	4.575	4.875		99.06	104.14	108.59	116.21	123.83	
43/86	4.200	4.400	4.575	4.875	5.175		106.68	111.76	116.21	123.83	131.45	
44/88	4.300	4.500	4.675	4.975	5.275		109.22	114.30	118.75	126.37	133.99	
49/98	4.800	5.000	5.175	5.475	5.775		121.92	127.00	131.45	139.07	146.69	
50/100	4.900	5.100	5.275	5.575	5.875		124.46	129.54	133.99	141.61	149.23	
60/120	5.900	6.100	6.275	6.575	6.875		149.86	154.94	159.39	167.01	174.63	
65/130	6.400	6.600	6.775	7.075	7.375		162.56	167.64	172.09	179.71	187.33	



**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Wire Wrap & Dip Solder**

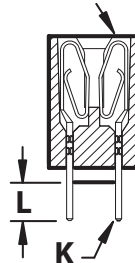
SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

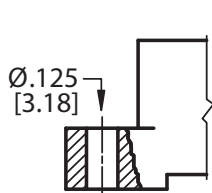
LOOP BELLOWS



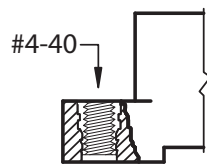
LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0100-10-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0100-10-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0100-10-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0100-10-DW-1K</i>

MOUNTING STYLE



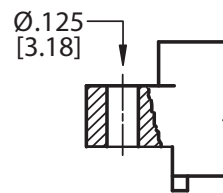
(STYLE 1)



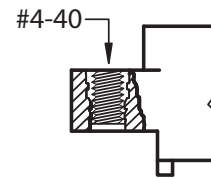
(STYLE 2)



(STYLE 4)



(STYLE 5)



(STYLE 6)



PART NUMBER OPTIONS

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

PLATING MODIFICATION CODE**
K = Required on MP SL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

PLATING MODIFICATION CODE**
K = Required on MP SL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

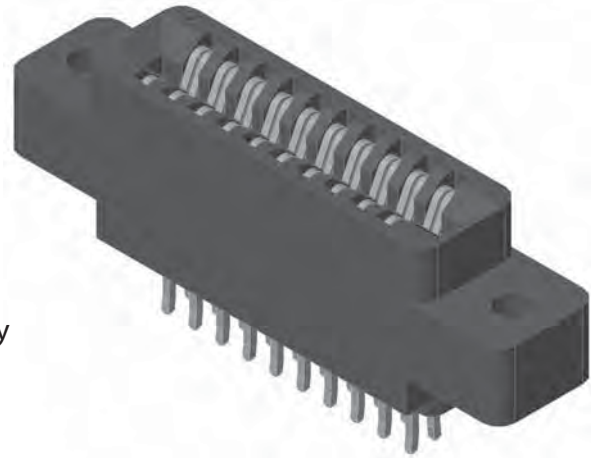
DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.													
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38	
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05	
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13	
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21	
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29	
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83	
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91	
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99	
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53	
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61	
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69	
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77	
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31	
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93	
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01	
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55	
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71	
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25	
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41	
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03	
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57	
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81	
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51	
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21	
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75	
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91	
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61	



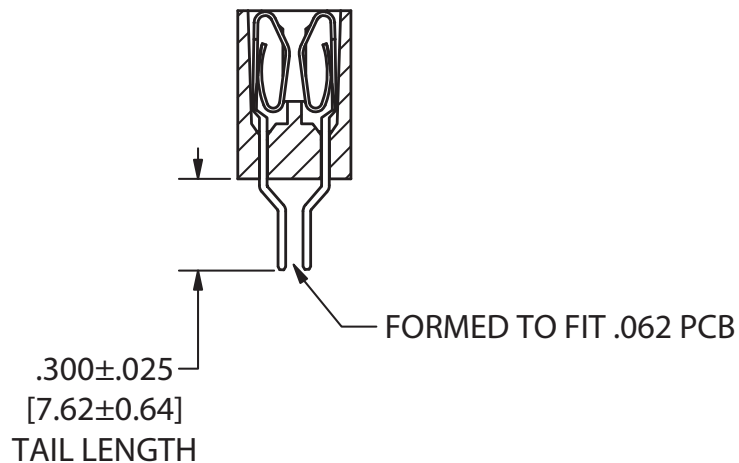
**.100" [2.54 mm] Contact Centers, .550" [13.90 mm] Insulator Height,
.025" [.64 mm] Square Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008" [1.57 \pm 0.20]$ PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

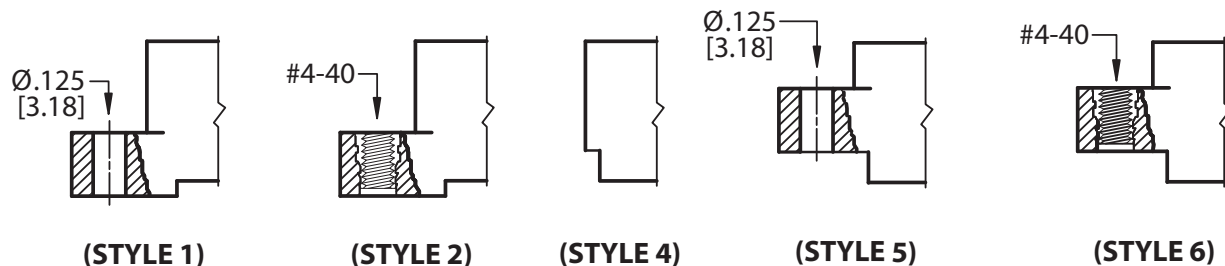


TERMINATION TYPE



Example P/N: MP~~SL~~-0100-10-D~~WE~~-4K~~TT~~

MOUNTING STYLE



**.100" [2.54 mm] Contact Centers, .550" [13.90 mm] Insulator Height,
.025" [.64 mm] Square Card Extender**



PART NUMBER OPTIONS

MPSL - 0 100 - 10 - D WE - 4 K TT

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
*Requires 'K' Modification Code

INSULATOR MATERIAL **
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
TT = No Standoffs

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
WE = Card Extender

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.

The diagram includes three views of a card edge connector:

- Top View:** Shows the connector's footprint with dimensions A, B, D, and E. A note points to the mounting style. A dimension of .370 [9.40] is shown for the overall width.
- Side View:** Shows the profile of the connector with dimensions C, F, and insertion depth. Key dimensions include .297 [7.54] for insertion depth, .250 [6.35] for the top flange, .120 [3.05] for the bottom flange, .100 [2.54] for the base, .550 [13.97] for the total height, and .025 [0.64] for the contact thickness.
- Contact Markings:** A diagram showing two rows of contacts. The top row is numbered 1, 3, 5, ..., 137, 139. The bottom row is numbered 2, 4, 6, ..., 138, 140.

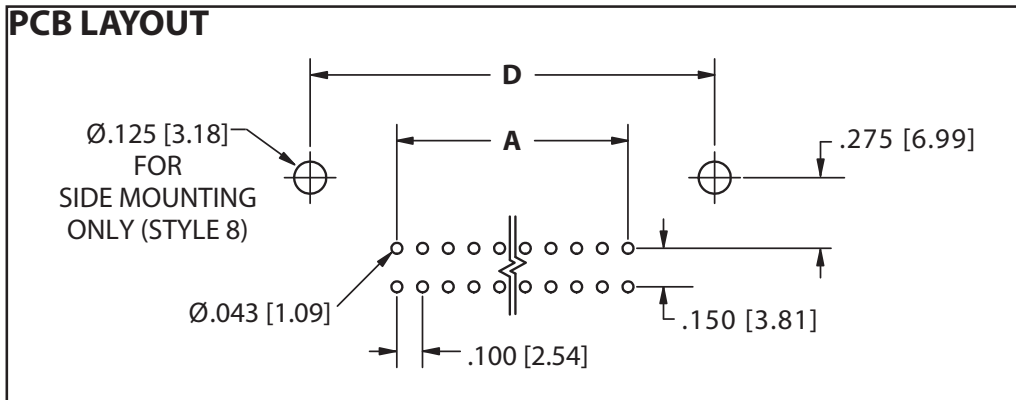
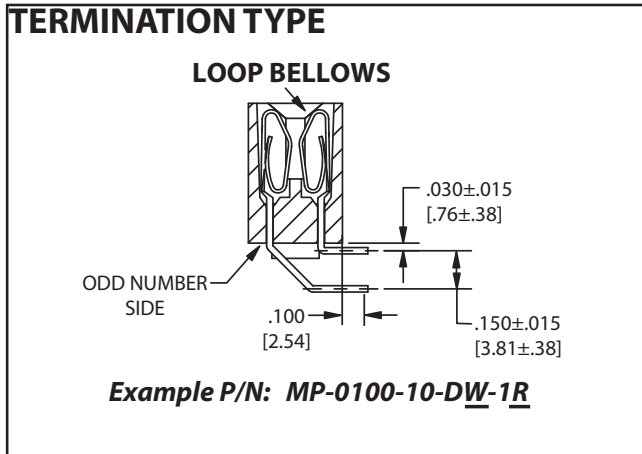
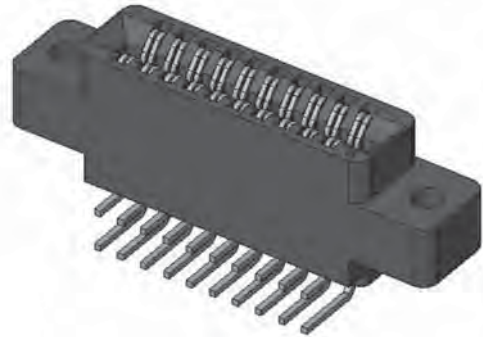
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61



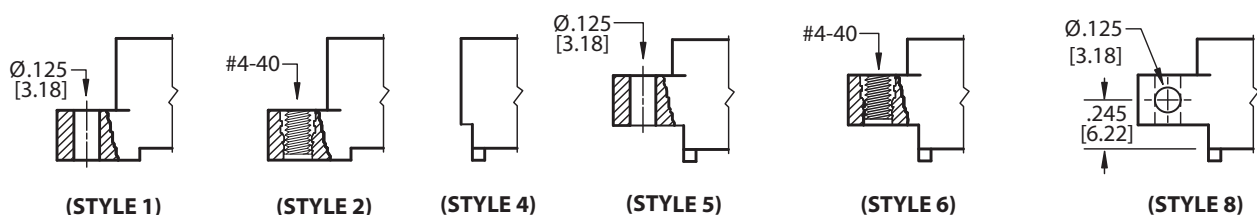
**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Right Angle**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



MOUNTING STYLE





PART NUMBER OPTIONS

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface	Termination
*MPSL = .000010" Gold	.000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte	
MP = .000010" Overall Gold	

*Requires 'K' Modification Code

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
100 = .100" [2.54mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
R = Right Angle

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert
8 = Raised, Side Mounting, .125" Clearance Hole

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
W = .025 [.64] Square

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

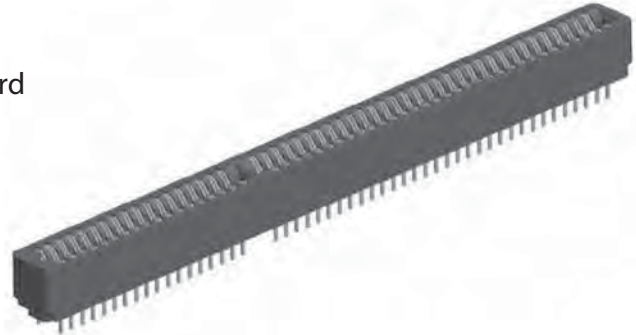
DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.													
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38	
06/12	0.500	0.700	0.860	1.175	1.435	0.750	12.70	17.78	21.84	29.85	36.45	19.05	
08/16	0.700	0.900	1.060	1.375	1.635	0.950	17.78	22.86	26.92	34.93	41.53	24.13	
10/20	0.900	1.100	1.260	1.575	1.835	1.150	22.86	27.94	32.00	40.01	46.61	29.21	
12/24	1.100	1.300	1.460	1.775	2.035	1.350	27.94	33.02	37.08	45.09	51.69	34.29	
13/26	1.200	1.400	1.560	1.875	2.135	1.450	30.48	35.56	39.62	47.63	54.23	36.83	
15/30	1.400	1.600	1.760	2.075	2.335	1.650	35.56	40.64	44.70	52.71	59.31	41.91	
17/34	1.600	1.800	1.960	2.275	2.535	1.850	40.64	45.72	49.78	57.79	64.39	46.99	
18/36	1.700	1.900	2.060	2.375	2.635	1.950	43.18	48.26	52.32	60.33	66.93	49.53	
20/40	1.900	2.100	2.260	2.575	2.835	2.150	48.26	53.34	57.40	65.41	72.01	54.61	
22/44	2.100	2.300	2.460	2.775	3.035	2.350	53.34	58.42	62.48	70.49	77.09	59.69	
24/48	2.300	2.500	2.660	2.975	3.235	2.550	58.42	63.50	67.56	75.57	82.17	64.77	
25/50	2.400	2.600	2.760	3.075	3.335	2.650	60.96	66.04	70.10	78.11	84.71	67.31	
28/56	2.700	2.900	3.060	3.375	3.635	2.950	68.58	73.66	77.72	85.73	92.33	74.93	
30/60	2.900	3.100	3.260	3.575	3.835	3.150	73.66	78.74	82.80	90.81	97.41	80.01	
31/62	3.000	3.200	3.360	3.675	3.935	3.250	76.20	81.28	85.34	93.35	99.95	82.55	
35/70	3.400	3.600	3.760	4.075	4.335	3.650	86.36	91.44	95.50	103.51	110.11	92.71	
36/72	3.500	3.700	3.860	4.175	4.435	3.750	88.90	93.98	98.04	106.05	112.65	95.25	
40/80	3.900	4.100	4.260	4.575	4.835	4.150	99.06	104.14	108.20	116.21	122.81	105.41	
43/86	4.200	4.400	4.560	4.875	5.135	4.450	106.68	111.76	115.82	123.83	130.43	113.03	
44/88	4.300	4.500	4.660	4.975	5.235	4.550	109.22	114.30	118.36	126.37	132.97	115.57	
50/100	4.900	5.100	5.260	5.575	5.835	5.150	124.46	129.54	133.60	141.61	148.21	130.81	
55/110	5.400	5.600	5.760	6.075	6.335	5.650	137.16	142.24	146.30	154.31	160.91	143.51	
60/120	5.900	6.100	6.260	6.575	6.835	6.150	149.86	154.94	159.00	167.01	173.61	156.21	
61/122	6.000	6.200	6.360	6.675	6.935	6.250	152.40	157.48	161.54	169.55	176.15	158.75	
65/130	6.400	6.600	6.760	7.075	7.335	6.650	162.56	167.64	171.70	179.71	186.31	168.91	
70/140	6.900	7.100	7.260	7.575	7.835	7.150	175.26	180.34	184.40	192.41	199.01	181.61	



**.100" [2.54 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Special 18/31 with Barrier, Dip Solder/Wire Wrap, [ISA]**

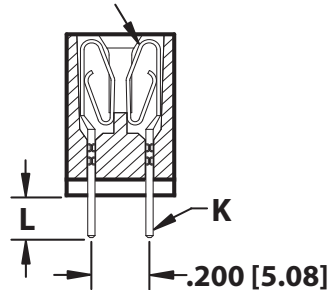
SPECIFICATIONS

- ISA Connector
- Accommodates .062" \pm .008" [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact
Position Key See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

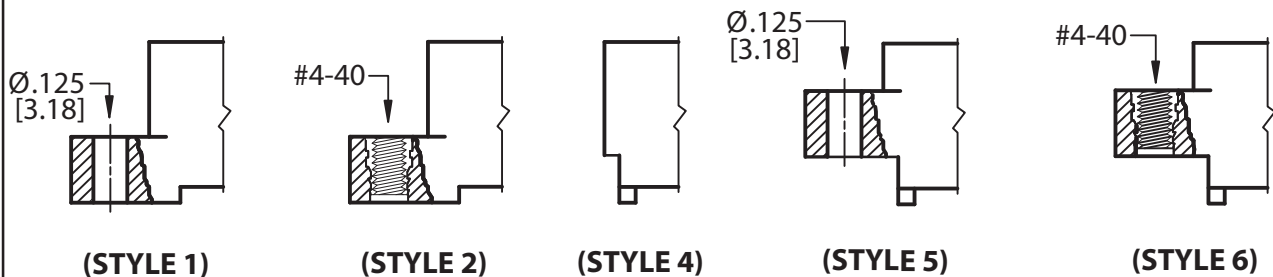
LOOP BELLOWS



LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0100-18/31-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0100-18/31-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0100-18/31-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0100-18/31-DW-1K</i>

MOUNTING STYLE



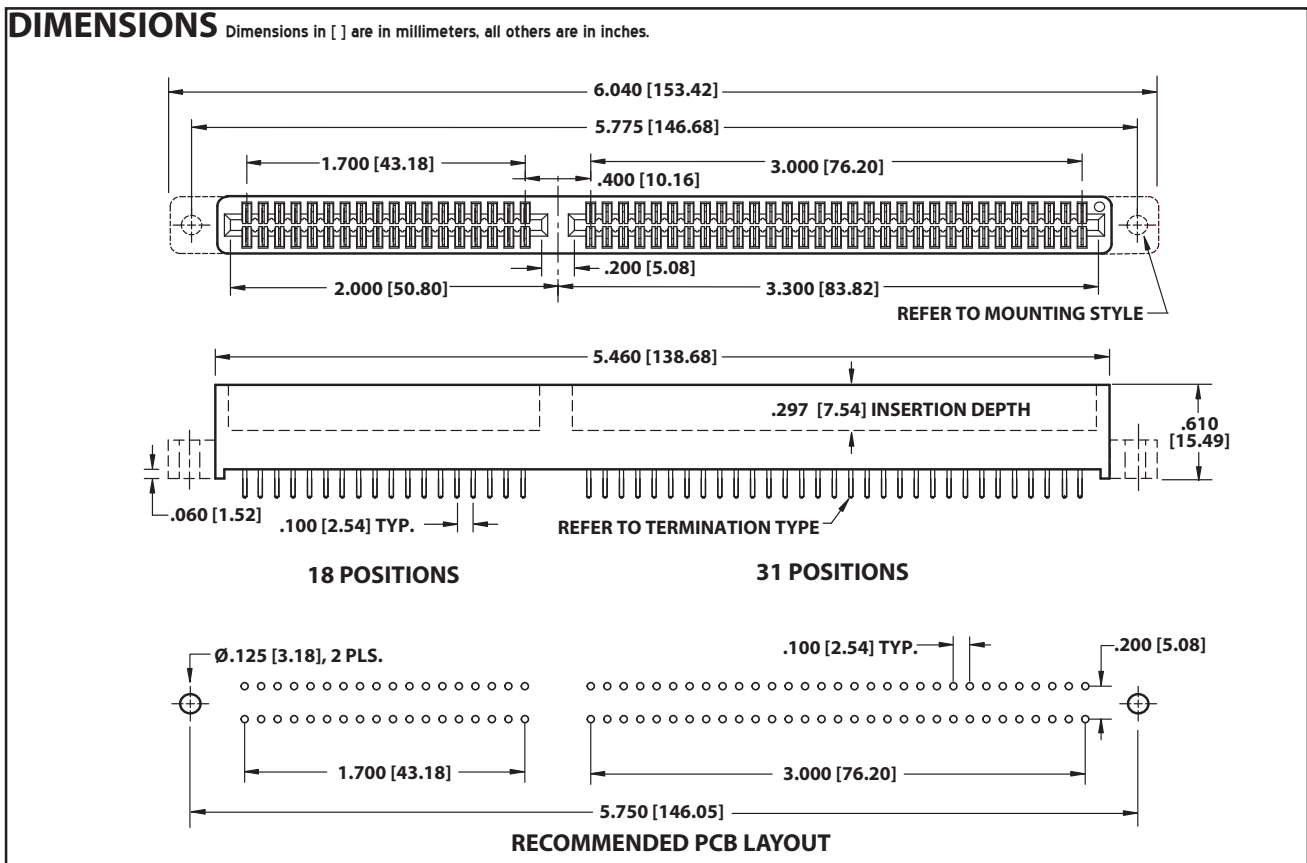


PART NUMBER OPTIONS

PLATING - RoHS Compliant All Platings are Lead Free and have .000050" Nickel Underplate Contact Surface *MPSL = .000010" Gold *MPL = .000100" Overall Pure Tin, Matte MP = .000010" Overall Gold *Requires 'K' Modification Code	INSULATOR MATERIAL** 0 = PBT	CONTACT CENTERS 100 = .100" [2.54mm]	NUMBER OF POSITIONS 18/31 Per Row	READOUT D = Dual	MPSL - 0 100 - 18/31 - D W - 1 H K	PLATING MODIFICATION CODE** K = Required on MPSL or MPL Plating Omit for MP Plating (Overall Gold) MODIFICATION CODE** (See Opposite Page) H = Dip Solder .190[4.83] Tail Length (.026 Round or .025 Square) H(.165) = Dip Solder .165[4.19] Tail Length (.026 Round Only) MOUNTING STYLE (See Opposite Page) 1 = .125" Clearance Hole 2 = #4-40 Threaded Insert 4 = No Mounting 5 = Raised, .125" Clearance Hole 6 = Raised, #4-40 Threaded Insert TERMINATION TYPE (See Opposite Page) LOOP BELLOWS R = .026[.66mm] Round W = .025[.64mm] Square
--	--	--	---	----------------------------	---	---

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

CONSULT FACTORY FOR RIGHT ANGLE VERSION

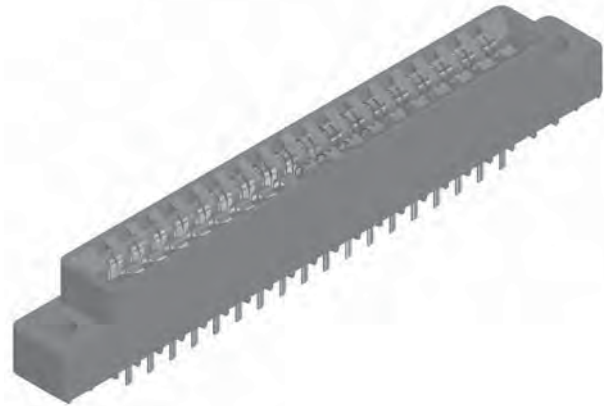




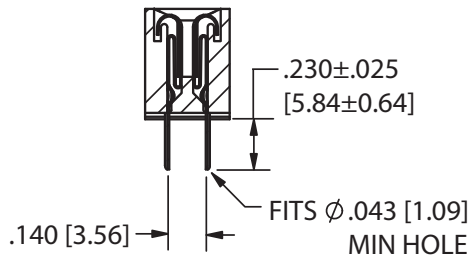
**.125" [3.18 mm] Contact Centers, .431" [10.95 mm] Insulator Height,
Dip Solder**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page Pages 134-135
- Row Spacing Available in .140" or .200"
(Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact
Position Key See Page 178 (Sold Separately)
- Molded-in Key Available - Consult Factory

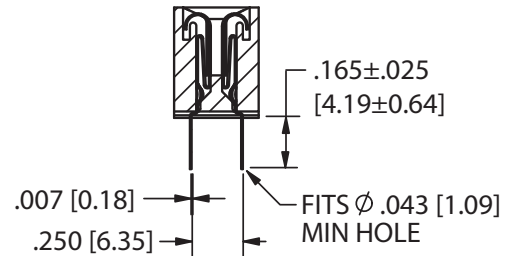


TERMINATION TYPE



**DIP SOLDER (S)
.140" ROW SPACING**

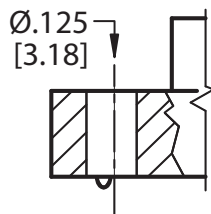
Example P/N: MP^{SL}-0125-10-DS-1K



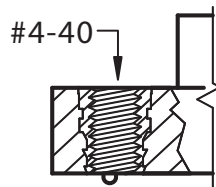
**DIP SOLDER (S)
.250" ROW SPACING
REQUIRES 'X9' MODIFICATION CODE**

Example P/N: MP^{SL}-0125-10-DS-1KX9

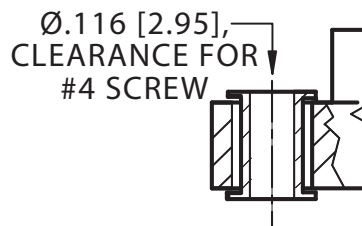
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

MPL - 0 125 - 10 - D S - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

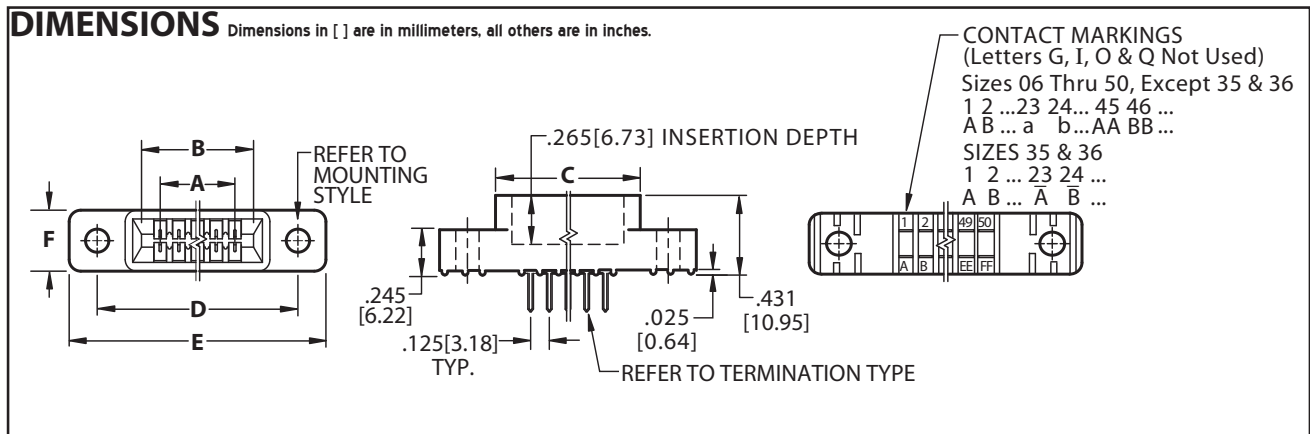
MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)
X9 = .250" Row Spacing

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

TERMINATION TYPE (See Opposite Page)
S = Dip Solder

READOUT
D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**



POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325		111.13	117.48	121.54	128.14	135.26	
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825	0.370	123.83	130.18	134.24	140.84	147.96	9.40
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	

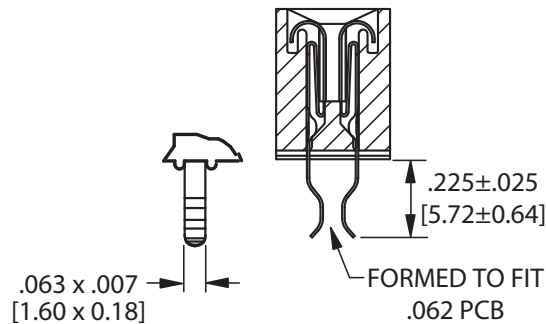


SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0003-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



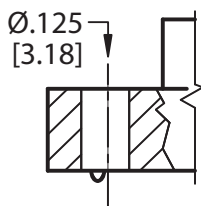
TERMINATION TYPE



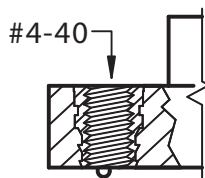
CARD EXTENDER (SE)

Example P/N:
MPSL-0125-10-DSE-1K

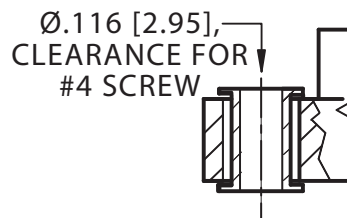
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

MPSL - 0 125 - 10 - D SE - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
*Requires 'K' Modification Code
Other Plating and thicknesses available upon request

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

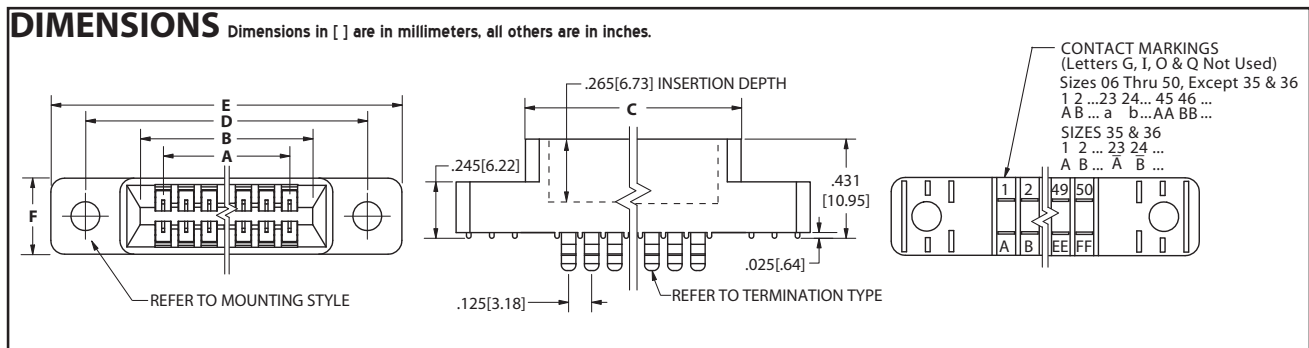
PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

TERMINATION TYPE (See Opposite Page)
SE = Card Extender

READOUT
D = Dual

** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS



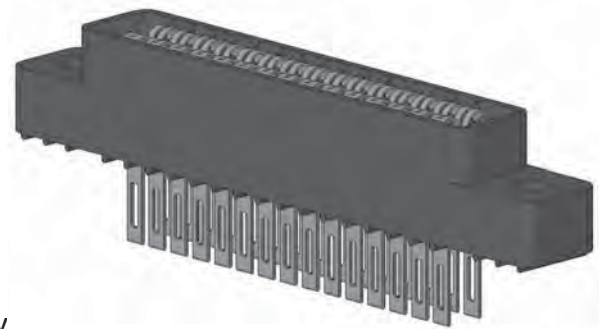
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325	0.370	111.13	117.48	121.54	128.14	135.26	9.40
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825		123.83	130.18	134.24	140.84	147.96	
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



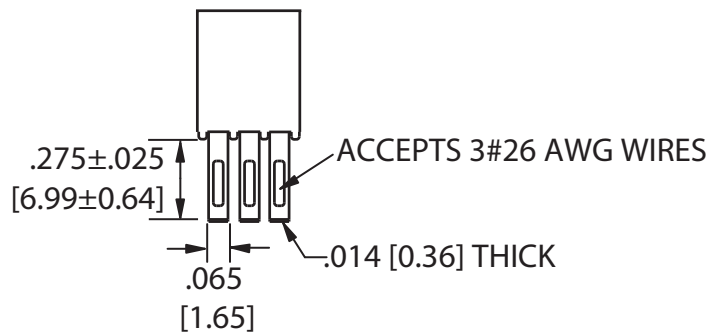
.125" [3.18 mm] Contact Centers, .431" [10.95 mm] Insulator Height, Eyelet

SPECIFICATIONS

- Accommodates $.062" \pm .008" [1.57 \pm 0.20]$ PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



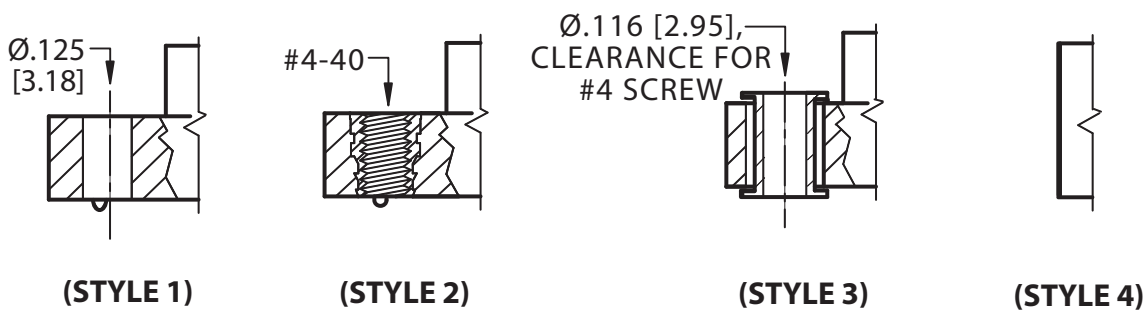
TERMINATION TYPE



EYELET (P)

Example P/N:
MP-0125-10-DP-1

MOUNTING STYLE





PART NUMBER OPTIONS

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

* Requires 'K' Modification Code

Other Plating and thicknesses available upon request

INSULATOR MATERIAL **

0 = PBT

CONTACT CENTERS

125 = .125" [3.18mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

MPL - 0 125 - 10 - D P - 1 K

PLATING MODIFICATION CODE**

K = Required on Tin Plating

Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole

2 = #4-40 Threaded Insert

3 = Floating Bobbin

4 = No Mounting

TERMINATION TYPE (See Opposite Page)

P = Pierced Eyelet, .014" Thick

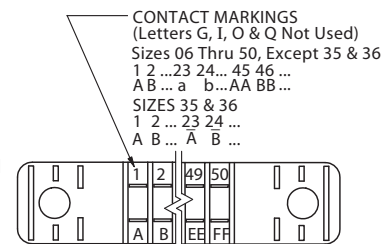
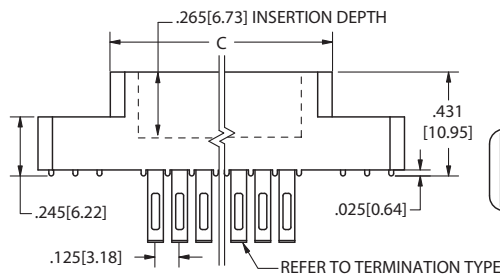
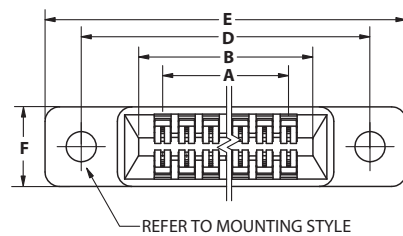
READOUT

D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



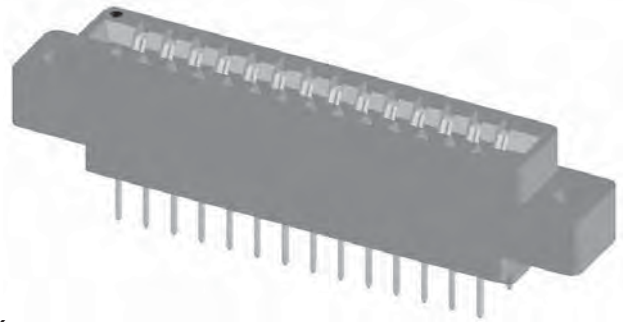
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.13
06/12	0.625	0.875	1.035	1.295	1.575	0.330	15.88	22.23	26.29	32.89	40.01	8.38
10/20	1.125	1.375	1.535	1.795	2.075		28.58	34.93	38.99	45.59	52.71	
14/28	1.625	1.875	2.035	2.295	2.575		41.28	47.63	51.69	58.29	65.41	
15/30	1.750	2.000	2.160	2.420	2.700		44.45	50.80	54.86	61.47	68.58	
18/36	2.125	2.375	2.535	2.795	3.075		53.98	60.33	64.39	70.99	78.11	
22/44	2.625	2.875	3.035	3.295	3.575		66.68	73.03	77.09	83.69	90.81	
28/56	3.375	3.625	3.785	4.045	4.325		85.73	92.08	96.14	102.74	109.86	
30/60	3.625	3.875	4.035	4.295	4.575		92.08	98.43	102.49	109.09	116.21	
31/62	3.750	4.000	4.160	4.420	4.700		95.25	101.60	105.66	112.27	119.38	
35/70	4.250	4.500	4.660	4.920	5.200		107.95	114.30	118.36	124.97	132.08	
36/72	4.375	4.625	4.785	5.045	5.325		111.13	117.48	121.54	128.14	135.26	
37/74	4.500	4.750	4.910	5.170	5.450		114.30	120.65	124.71	131.32	138.43	
40/80	4.875	5.125	5.285	5.545	5.825	0.370	123.83	130.18	134.24	140.84	147.96	9.40
43/86	5.250	5.500	5.660	5.920	6.200		133.35	139.70	143.76	150.37	157.48	
44/88	5.375	5.625	5.785	6.045	6.325		136.53	142.88	146.94	153.54	160.66	
49/98	6.000	6.250	6.410	6.670	6.950		152.40	158.75	162.81	169.42	176.53	
50/100	6.125	6.375	6.535	6.795	7.075		155.58	161.93	165.99	172.59	179.71	



**.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Wire Wrap & Dip Solder**

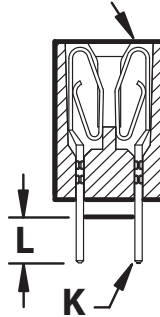
SPECIFICATIONS

- Accommodates $.062" \pm .008" [1.57 \pm 0.20]$ PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

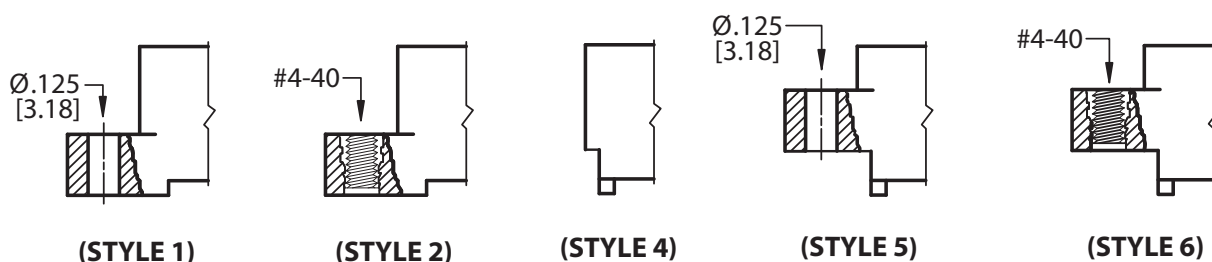
LOOP BELLOWS



LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0125-10-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0125-10-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0125-10-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0125-10-DW-1K</i>

MOUNTING STYLE





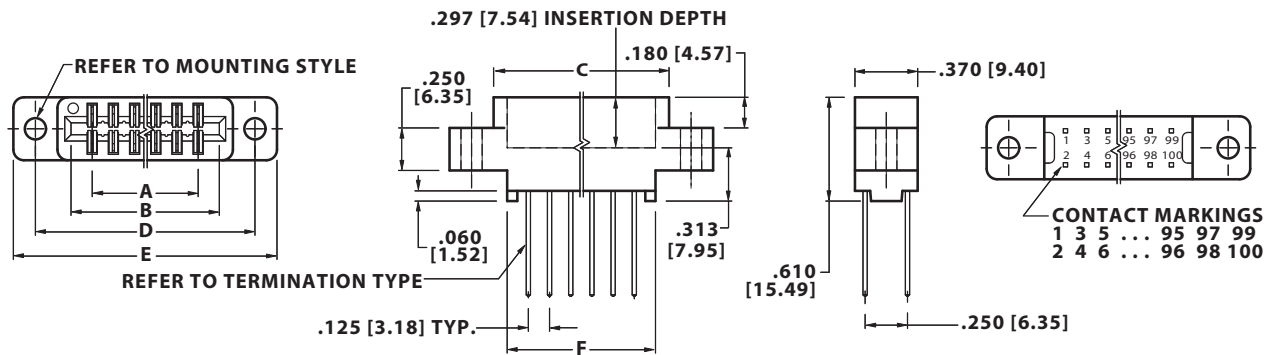
PART NUMBER OPTIONS

PLATING - RoHS Compliant		PLATING MODIFICATION CODE**	
All Platings are Lead Free and have .000050" Nickel Underplate		K = Required on MPSL or MPL Plating Omit for MP Plating (Overall Gold)	
Contact Surface	Termination	MODIFICATION CODE**	
*MPSL = .000010" Gold	.000100" Pure Tin, Matte	(See Opposite Page)	
*MPL = .000100" Overall Pure Tin, Matte		H = Dip Solder .190[4.83] Tail Length (.026 Round or .025 Square)	
MP = .000010" Overall Gold		H(.165) = Dip Solder .165[4.19] Tail Length (.026 Round Only)	
*Requires 'K' Modification Code		MOUNTING STYLE (See Opposite Page)	
INSULATOR MATERIAL**		1 = .125" Clearance Hole	
0 = PBT		2 = #4-40 Threaded Insert	
CONTACT CENTERS		4 = No Mounting	
125 = .125" [3.18mm]		5 = Raised, .125" Clearance Hole	
NUMBER OF POSITIONS		6 = Raised, #4-40 Threaded Insert	
Contacts Per Row (See Position Chart Below)		TERMINATION TYPE (See Opposite Page)	
READOUT		LOOP BELLOWS	
D = Dual		R = .026[.66mm] Round	
		W = .025[.64mm] Square	

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



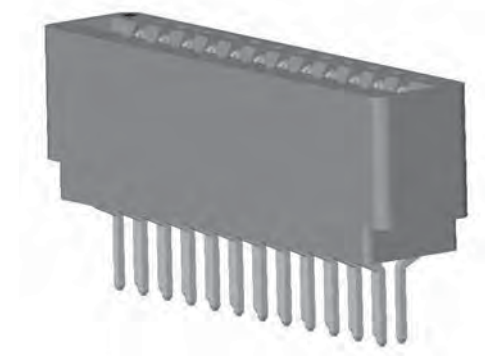
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±.020	B±.020	C±.038	D±.025	E±.051	F±.038
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93



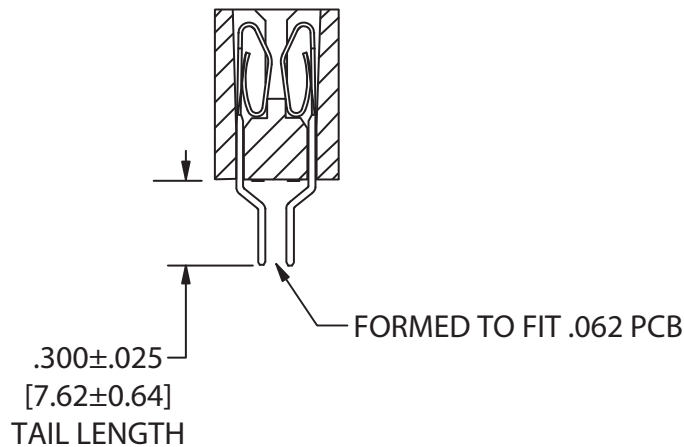
**.125" [3.18 mm] Contact Centers, .550" [13.90 mm] Insulator Height,
.025" [.64 mm] Square Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

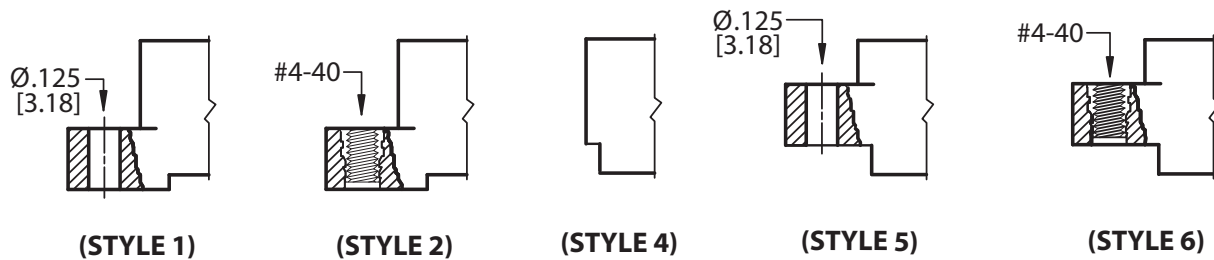


TERMINATION TYPE



Example P/N: *MPSL-0125-10-DWE-4KTT*

MOUNTING STYLE



**.125" [3.18 mm] Contact Centers, .550" [13.90 mm] Insulator Height,
.025" [.64 mm] Square Card Extender**



PART NUMBER OPTIONS

MPSL - 0 125 - 10 - D WE - 4 K TT

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3.18mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
TT = No Standoffs

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

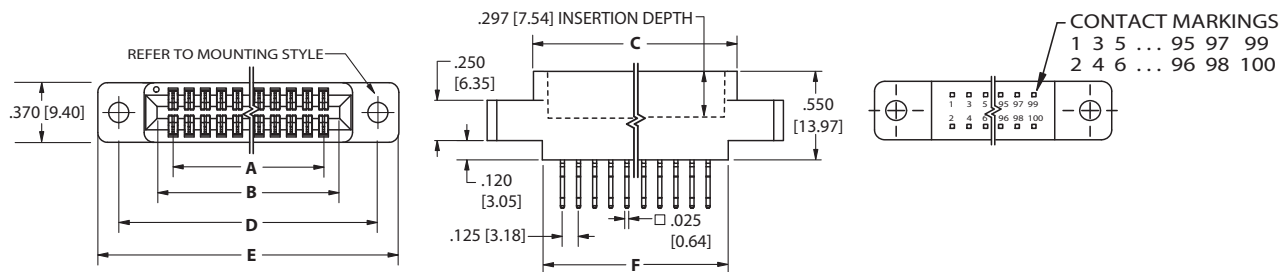
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
WE = Card Extender

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



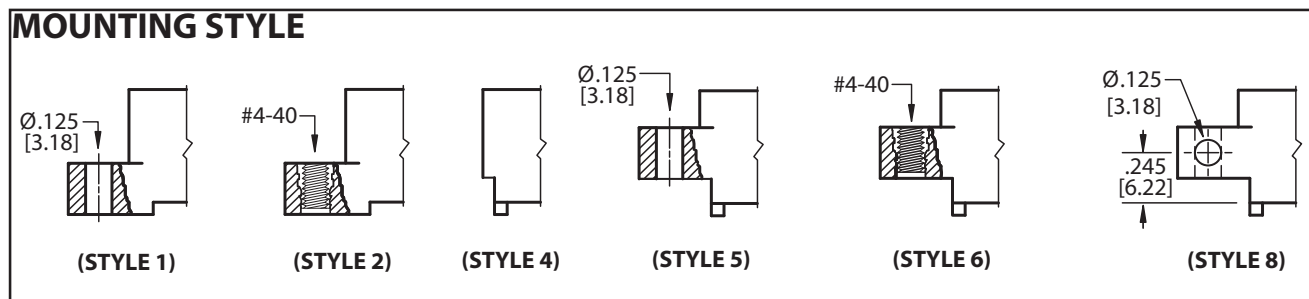
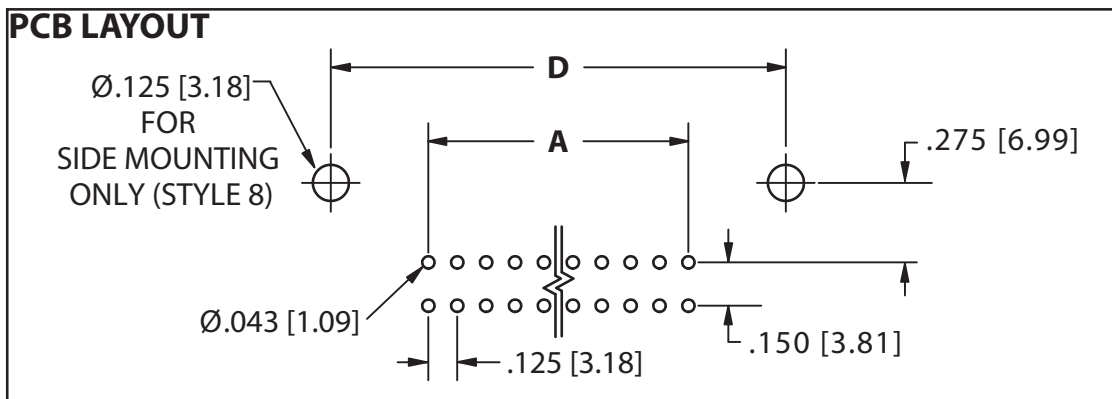
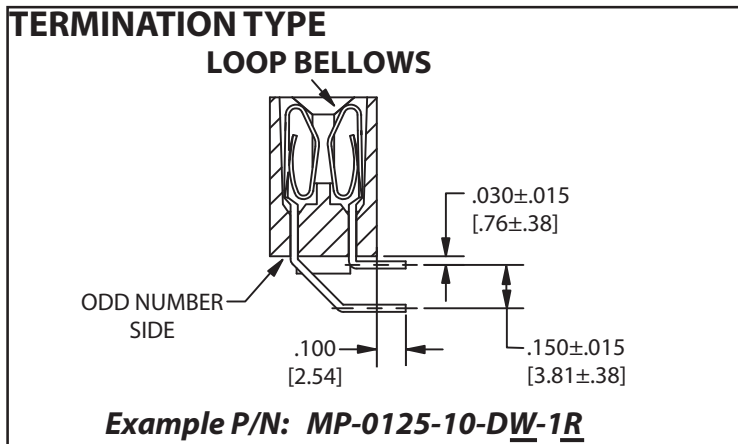
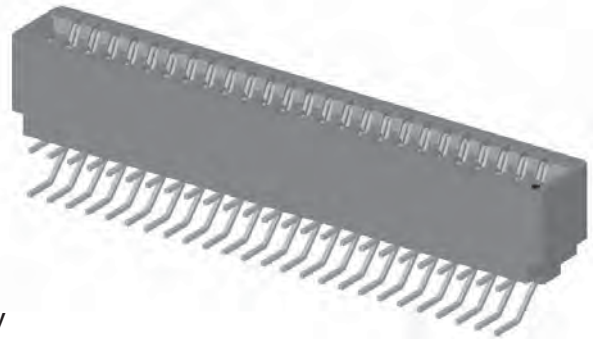
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93



.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height, Right Angle

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact Position Key See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory





PART NUMBER OPTIONS

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
125 = .125" [3018mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
R = Right Angle

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert
8 = Raised, Side Mounting, .125" Clearance Hole

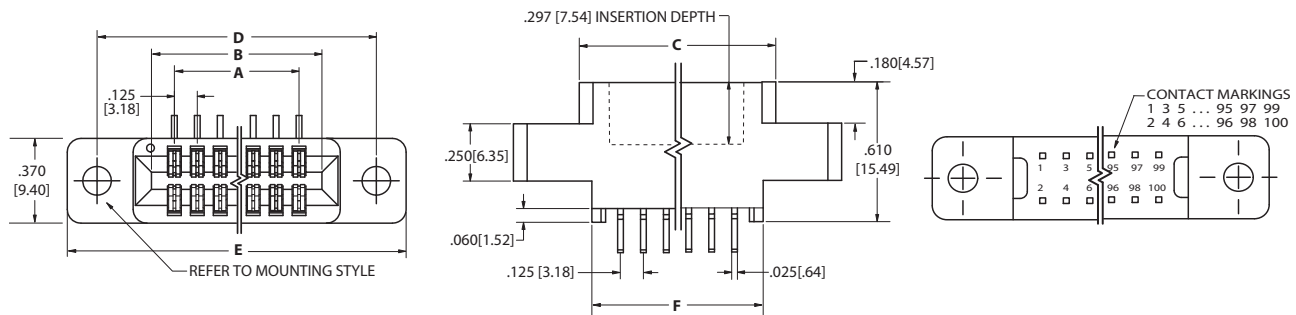
TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
W = .025 [.64] Square

Example Part Number: MPSL - 0 125 - 10 - D W - 1 K R

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



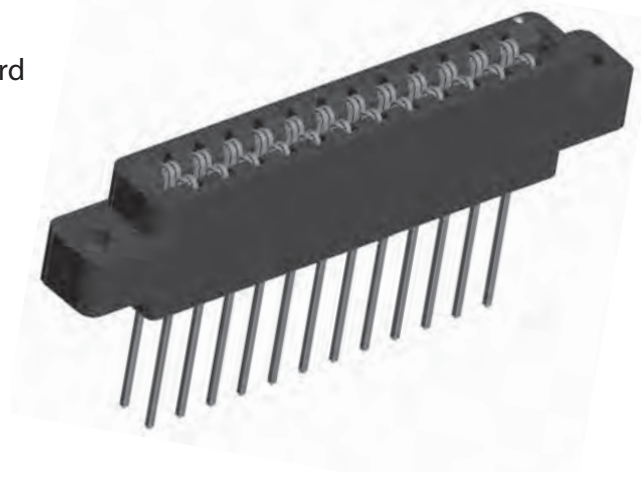
POSITIONS/ CONTACTS	INCHES						MILLIMETERS					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.625	0.875	1.035	1.295	1.555	0.875	15.88	22.23	26.29	32.89	39.50	22.23
10/20	1.125	1.375	1.535	1.795	2.055	1.375	28.58	34.93	38.99	45.59	52.20	34.93
14/28	1.625	1.875	2.035	2.295	2.555	1.875	41.28	47.63	51.69	58.29	64.90	47.63
15/30	1.750	2.000	2.160	2.420	2.680	2.000	44.45	50.80	54.86	61.47	68.07	50.80
18/36	2.125	2.375	2.535	2.795	3.055	2.375	53.98	60.33	64.39	70.99	77.60	60.33
22/44	2.625	2.875	3.035	3.295	3.555	2.875	66.68	73.03	77.09	83.69	90.30	73.03
24/48	2.875	3.125	3.285	3.545	3.805	3.125	73.03	79.38	83.44	90.04	96.65	79.38
28/56	3.375	3.625	3.785	4.045	4.305	3.625	85.73	92.08	96.14	102.74	109.35	92.08
30/60	3.625	3.875	4.035	4.295	4.555	3.875	92.08	98.43	102.49	109.09	115.70	98.43
31/62	3.750	4.000	4.160	4.420	4.680	4.000	95.25	101.60	105.66	112.27	118.87	101.60
32/64	3.875	4.125	4.285	4.545	4.805	4.125	98.43	104.78	108.84	115.44	122.05	104.78
35/70	4.250	4.500	4.660	4.920	5.180	4.500	107.95	114.30	118.36	124.97	131.57	114.30
36/72	4.375	4.625	4.785	5.045	5.305	4.625	111.13	117.48	121.54	128.14	134.75	117.48
40/80	4.875	5.125	5.285	5.545	5.805	5.125	123.83	130.18	134.24	140.84	147.45	130.18
43/86	5.250	5.500	5.660	5.920	6.180	5.500	133.35	139.70	143.76	150.37	156.97	139.70
44/88	5.375	5.625	5.785	6.045	6.305	5.625	136.53	142.88	146.94	153.54	160.15	142.88
49/98	6.000	6.250	6.410	6.670	6.930	6.250	152.40	158.75	162.81	169.42	176.02	158.75
50/100	6.125	6.375	6.535	6.795	7.055	6.375	155.58	161.93	165.99	172.59	179.20	161.93



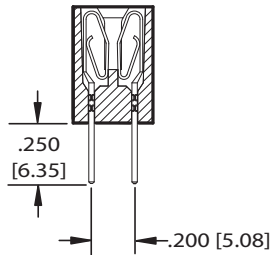
**.150" [3.81 mm] Contact Centers, .550" [13.90 mm] Insulator Height,
.025" [.64 mm] Square & .026" [.66 mm] Round Dip Solder**

SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Pages 126-127
- P/N 04-0004-000 for In Between Contact
Position Key See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

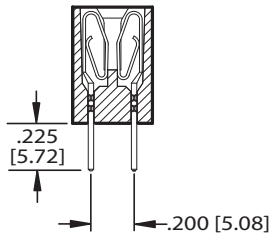


TERMINATION TYPE



.250 [6.35] TAIL LENGTH

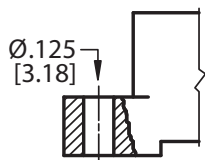
Termination Code	Modification Code	Termination Type	Fits Min. Hole Size	Example Part Number
W	H	.025[.64] Square	.040[1.02]	<i>MPSL-0150-18-DW-1HK</i>
R	H	.026[.66] Round	.030[0.76]	<i>MPSL-0150-18-DR-1HK</i>



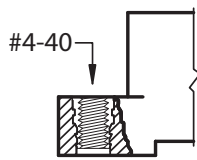
.225 [5.72] TAIL LENGTH

Termination Code	Modification Code	Termination Type	Fits Min. Hole Size	Example Part Number
R	H(.225)	.026[.66] Round	.030[0.76]	<i>MPSL-0150-18-DR-1HK(.225)</i>

MOUNTING STYLE



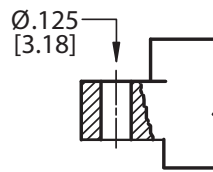
(STYLE 1)



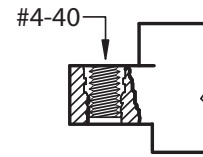
(STYLE 2)



(STYLE 4)



(STYLE 5)



(STYLE 6)

**.150" [3.81 mm] Contact Centers, .550" [13.90 mm] Insulator Height,
.025" [.64 mm] Square & .026" [.66 mm] Round Dip Solder**



PART NUMBER OPTIONS

MPSL - 0 150 - 18 - D W - 1 H K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
* Requires 'K' Modification Code

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
150 = .150" [3.81mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .250[6.35] Tail Length
(.026 Round or .025 Square)
H(.225) = Dip Solder .225[5.72] Tail Length
(.026 Round Only)

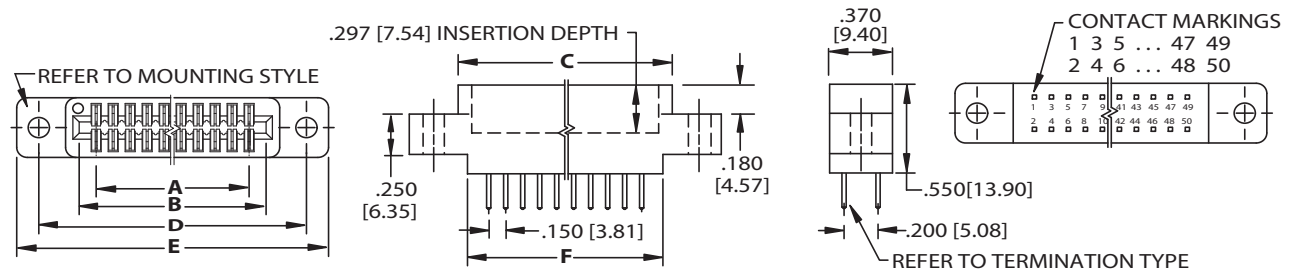
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
W = .025[.64mm] Square
R = .026[.66mm] Round

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



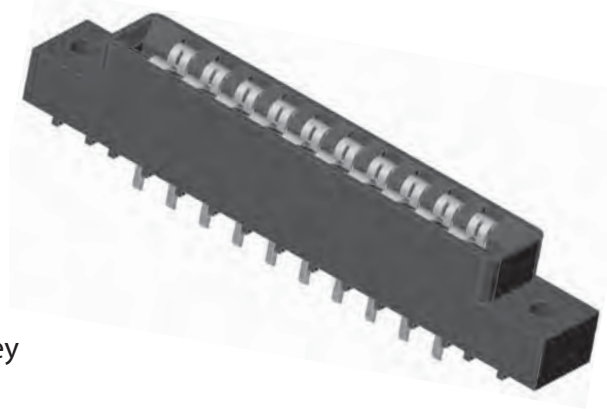
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.010	B±.010	C±.015	D±.015	E±.020	F±.015	A±0.25	B±0.25	C±0.38	D±0.38	E±0.51	F±0.20
18/36	2.550	2.850	2.990	3.300	3.550	2.800	64.77	72.39	75.95	83.82	90.17	71.12
25/50	3.600	3.900	4.040	-----	-----	3.850	91.44	99.06	102.62	-----	-----	97.79
26/52	3.750	4.050	4.190	4.500	4.750	4.000	95.25	102.87	106.43	114.30	120.65	101.60
28/56	4.050	4.350	4.490	4.800	5.050	4.300	102.87	110.49	114.05	121.92	128.27	109.22
32/64	4.650	4.950	5.090	-----	-----	4.900	118.11	125.73	129.29	-----	-----	124.46
50/100	7.350	7.650	7.800	-----	-----	7.600	186.69	194.31	198.12	-----	-----	193.04



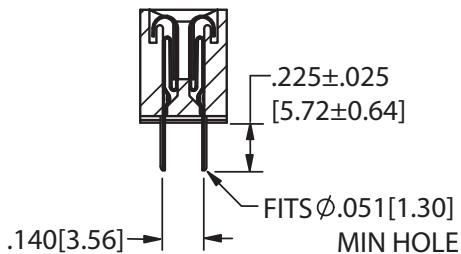
**.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height,
Dip Solder**

SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
- Row Spacing Available in .140" or .200"
(Use Modification Code 'E9' or 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key
P/N 04-0002-000 for In Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

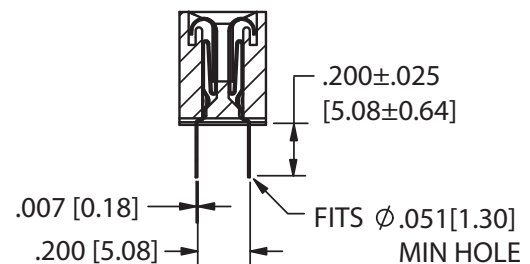


TERMINATION TYPE



**DIP SOLDER (S)
.140" ROW SPACING**

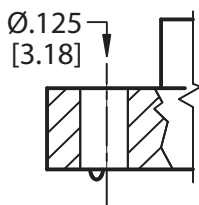
Example P/N: MP~~SL~~-0156-10-DS-1K



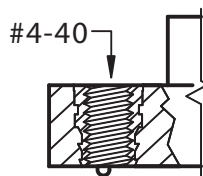
**DIP SOLDER (S)
.200" ROW SPACING
REQUIRES 'X9' MODIFICATION CODE**

Example P/N: MP~~SL~~-0156-10-DS-1X9K

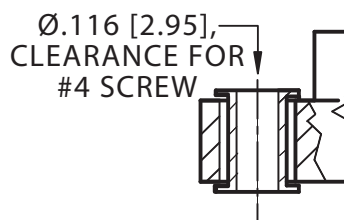
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

MPSL - 0 156 - 10 - D S - 1 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPSL = .000010" Gold .000100" Pure Tin, Matte

*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

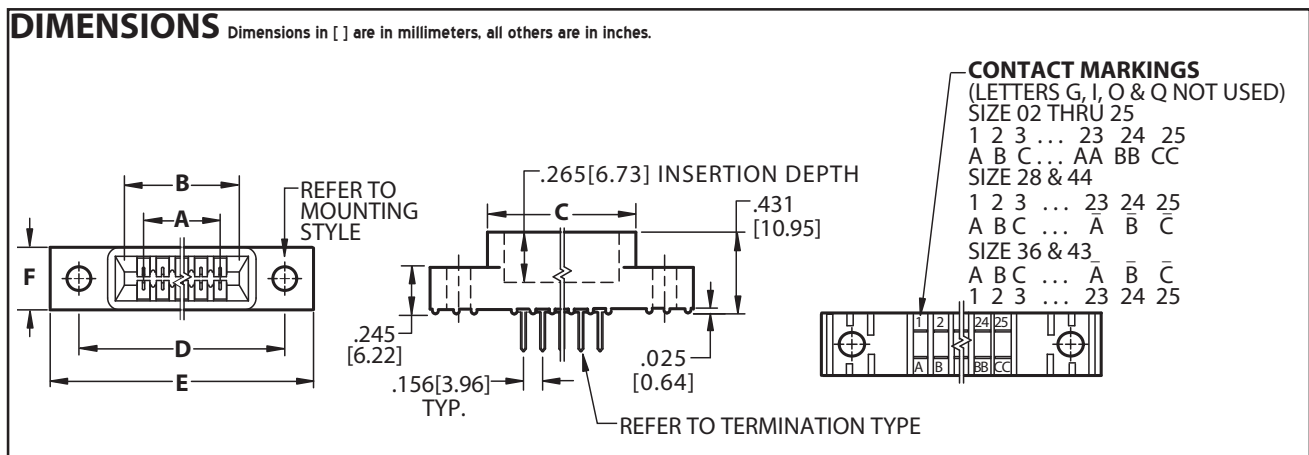
MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)
E9, X9 = .200" Row Spacing

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

TERMINATION TYPE (See Opposite Page)
S = Dip Solder

READOUT
D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**



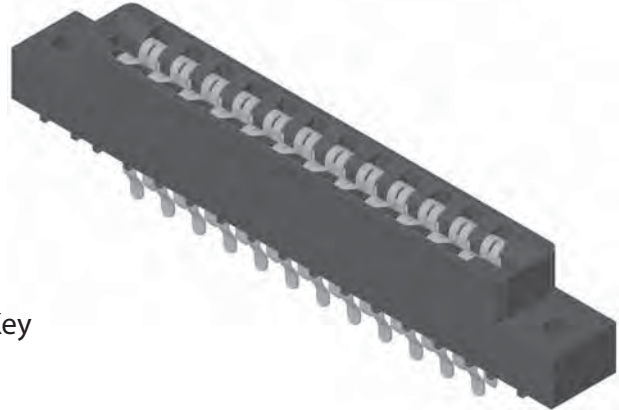
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13	
02/04	0.156	0.476	0.596	'N' MOUNTING		0.325	3.96	12.09	15.14	'N' MOUNTING			8.26
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING			
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31		
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24		
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16		
11/22	1.560	1.880	2.000	2.313	2.682		39.62	47.75	50.80	58.75	68.12		
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09		
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97		
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86		
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71		
24/48	3.588	3.908	4.028	4.341	4.710	91.14	99.26	102.31	110.26	119.63			
25/50	3.744	4.064	4.184	4.497	4.866	95.10	103.23	106.27	114.22	123.60			
28/56	4.212	4.532	4.652	4.965	5.334	0.438	106.98	115.11	118.16	126.11	135.48	11.13	
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18		
43/86	6.552	6.872	6.992	7.305	7.674	0.500	166.42	174.55	177.60	185.55	194.92	12.70	
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88		



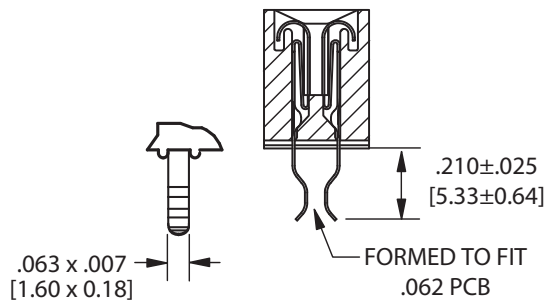
**.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height,
Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
- P/N 04-0003-000 for In Between Contact Position Key
P/N 04-0002-000 for In Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

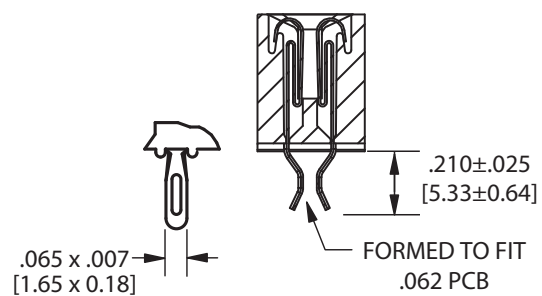


TERMINATION TYPE



CARD EXTENDER (SE)

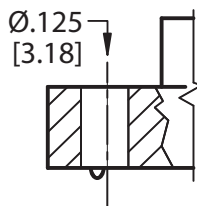
Example P/N: MPSL-0156-10-DSE-1K



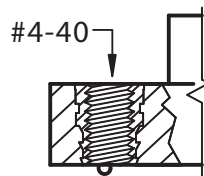
ECONOMY EYELET CARD EXTENDER (PE)

Example P/N: EMPL-0156-10-DPE-1K

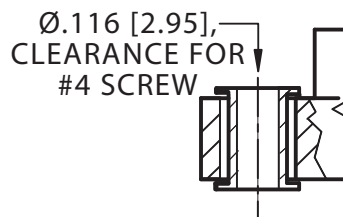
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

MPSL - 0 156 - 10 - D SE - 1 K

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPSL = .000010" Gold .000100" Pure Tin Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold

Platings that start with 'E' are for Economy Eyelet Only

*EMPSL = .000010" Gold .000100" Pure Tin Matte
*EMPL = .000100" Overall Pure Tin, Matte
EMP = .000010" Overall Gold

* Requires 'K' Modification Code

Other Plating and thicknesses available upon request

INSULATOR MATERIAL**

0 = PBT

CONTACT CENTERS

156 = .156" [3.96mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

PLATING MODIFICATION CODE**

K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

TERMINATION TYPE (See Opposite Page)

SE = Card Extender
Requires Part Number to start with 'M'
PE = Economy Eyelet Card Extender
Requires Part Number to start with 'E'

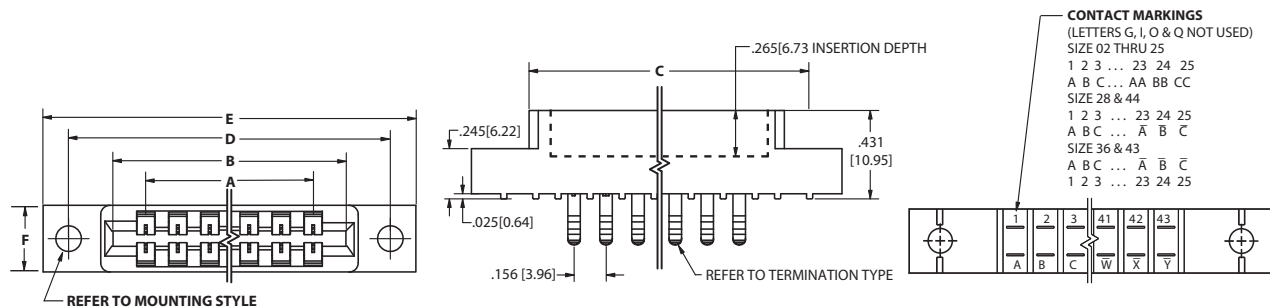
READOUT

D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



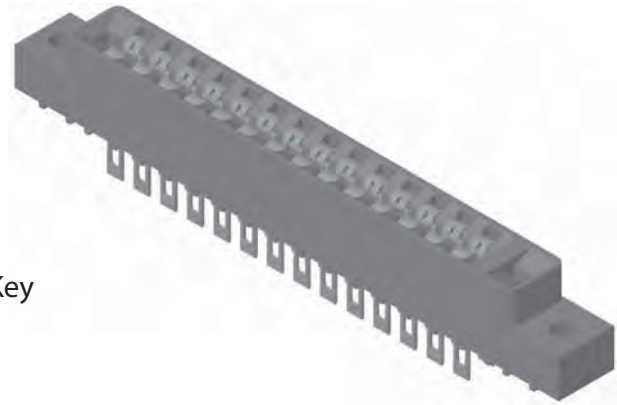
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13
02/04	0.156	0.476	0.596	'N' MOUNTING			3.96	12.09	15.14	'N' MOUNTING		
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING		
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31	
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24	
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16	
11/22	1.560	1.880	2.000	2.313	2.682		39.62	47.75	50.80	58.75	68.12	
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09	
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97	
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86	
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71	
24/48	3.588	3.908	4.028	4.341	4.710		91.14	99.26	102.31	110.26	119.63	
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60	
28/56	4.212	4.532	4.652	4.965	5.334		106.98	115.11	118.16	126.11	135.48	
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18	
43/86	6.552	6.872	6.992	7.305	7.674		166.42	174.55	177.60	185.55	194.92	
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88	



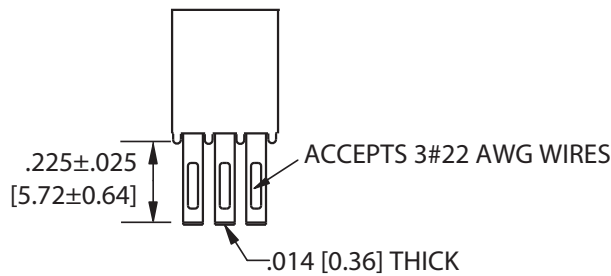
.156" [3.96 mm] Contact Centers, .431" [10.95 mm] Insulator Height, Eyelet

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
P/N 04-0003-000 for In Between Contact Position Key
P/N 04-0002-000 for In Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

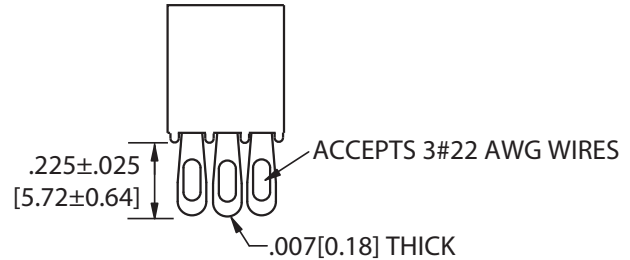


TERMINATION TYPE



EYELET (P)

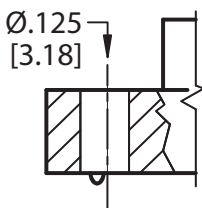
Example P/N: MP-0156-10-DP-1



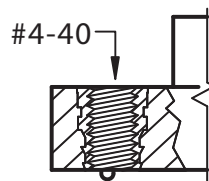
ECONOMY EYELET (P)

Example P/N: EMPSL-0156-10-DP-1K

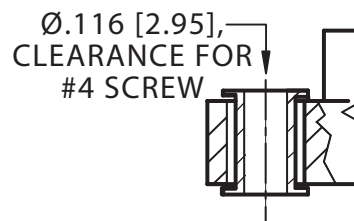
MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



PART NUMBER OPTIONS

MPL - 0 156 - 10 - D P - 1 K

PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination

*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold

Platings that start with 'E' are for Economy Eyelet Only

*EMPSL = .000010" Gold .000100" Pure Tin Matte
*EMPL = .000100" Overall Pure Tin, Matte
EMP = .000010" Overall Gold

*** Requires 'K' Modification Code**

Other Plating and thicknesses available upon request

INSULATOR MATERIAL**

0 = PBT

CONTACT CENTERS

156 = .156" [3.96mm]

NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

PLATING MODIFICATION CODE**

K = Required on Tin Plating Terminations
Omit for MP and EMP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
3 = Floating Bobbin
4 = No Mounting

TERMINATION TYPE (See Opposite Page)

P = Pierced Eyelet, .014" Thick
MPL and MP Plating Only
P = Economy Eyelet, .007" Thick
Requires Part Number to start with 'E'

READOUT

D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

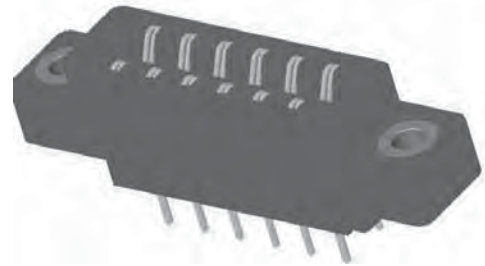
DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.													
CONTACT MARKINGS (LETTERS G, I, O & Q NOT USED) SIZE 02 THRU 25 1 2 3 ... 23 24 25 A B C ... AA BB CC SIZE 28 & 44 1 2 3 ... 23 24 25 A B C ... A B C SIZE 36 & 43 1 2 3 ... 23 24 25 A B C ... A B C													
POSITIONS/ CONTACTS	INCHES					[MILLIMETERS]							
	A±.008	B±.008	C±.015	D±.010	E MAX	F±.005	A±0.20	B±0.20	C±0.38	D±0.25	E MAX	F±0.13	
02/04	0.156	0.476	0.596	'N' MOUNTING			3.96	12.09	15.14	'N' MOUNTING			
03/06	0.312	0.632	0.752	'N' MOUNTING			7.92	16.05	19.10	'N' MOUNTING			
06/12	0.780	1.100	1.220	1.533	1.902		19.81	27.94	30.99	38.94	48.31		
08/16	1.092	1.412	1.532	1.845	2.214		27.74	35.86	38.91	46.86	56.24		
10/20	1.404	1.724	1.844	2.157	2.526		35.66	43.79	46.84	54.79	64.16		
11/22	1.560	1.880	2.000	2.313	2.682	0.325	39.62	47.75	50.80	58.75	68.12		
12/24	1.716	2.036	2.156	2.469	2.838		43.59	51.71	54.76	62.71	72.09		
15/30	2.184	2.504	2.624	2.937	3.306		55.47	63.60	66.65	74.60	83.97		
18/36	2.652	2.972	3.092	3.405	3.774		67.36	75.49	78.54	86.49	95.86		
22/44	3.276	3.596	3.716	4.029	4.398		83.21	91.34	94.39	102.34	111.71		
24/48	3.588	3.908	4.028	4.341	4.710		91.14	99.26	102.31	110.26	119.63		
25/50	3.744	4.064	4.184	4.497	4.866		95.10	103.23	106.27	114.22	123.60		
28/56	4.212	4.532	4.652	4.965	5.334	0.438	106.98	115.11	118.16	126.11	135.48		
36/72	5.460	5.780	5.900	6.213	6.582		138.68	146.81	149.86	157.81	167.18		11.13
43/86	6.552	6.872	6.992	7.305	7.674	0.500	166.42	174.55	177.60	185.55	194.92		
44/88	6.708	7.028	7.148	7.461	7.830		170.38	178.51	181.56	189.51	198.88		12.70



**.156" [3.96 mm] Contact Centers, .610" [15.49 mm] Insulator Height,
Wire Wrap & Dip Solder**

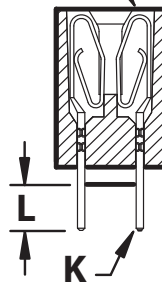
SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

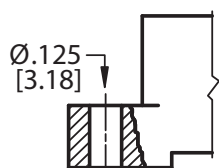
LOOP BELLOWS



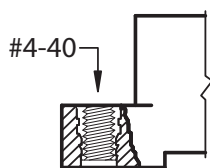
LOOP BELLOWS

TERMINATION CODE	MODIFICATION CODE	TYPE	POST CROSS SECTION K	POST LENGTH L	FITS MIN. HOLE SIZE	EXAMPLE PART NUMBER
R	H	Dip Solder	.026 [0.66] Round	.190 [4.83]	.030 [0.76]	<i>MPSL-0156-10-DR-1HK</i>
R	H(.165)	Dip Solder	.026 [0.66] Round	.165 [4.19]	.030 [0.76]	<i>MPSL-0156-10-DR-1HK(.165)</i>
W	H	Dip Solder	.025 [0.64] Square	.190 [4.83]	.040 [1.02]	<i>MPSL-0156-10-DW-1HK</i>
W	OMIT	Wire Wrap	.025 [0.64] Square	.560 [14.20]	.040 [1.02]	<i>MPSL-0156-10-DW-1K</i>

MOUNTING STYLE



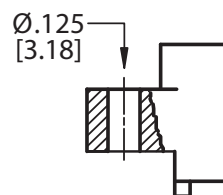
(STYLE 1)



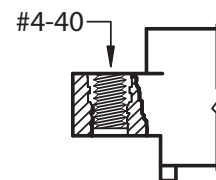
(STYLE 2)



(STYLE 4)



(STYLE 5)



(STYLE 6)



PART NUMBER OPTIONS

MPSL - 0 156 - 10 - D W - 1 H K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface **Termination**
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MODIFICATION CODE**
(See Opposite Page)
H = Dip Solder .190[4.83] Tail Length
(.026 Round or .025 Square)
H(.165) = Dip Solder .165[4.19] Tail Length
(.026 Round Only)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
LOOP BELLOWS
R = .026[.66mm] Round
W = .025[.64mm] Square

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS Dimensions in [] are in millimeters, all others are in inches.												
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77

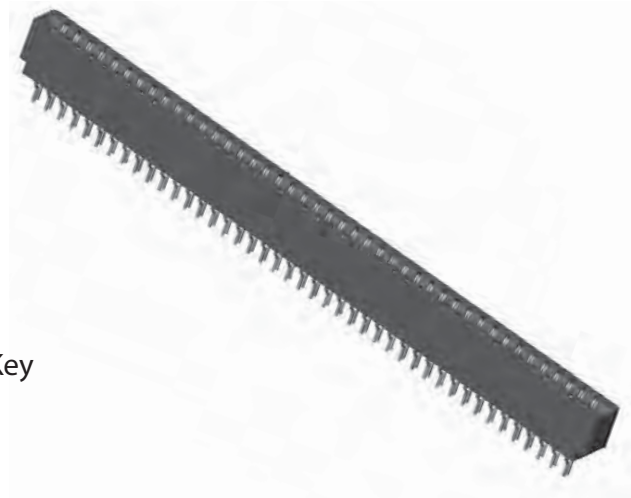
* Consult Factory for availability.



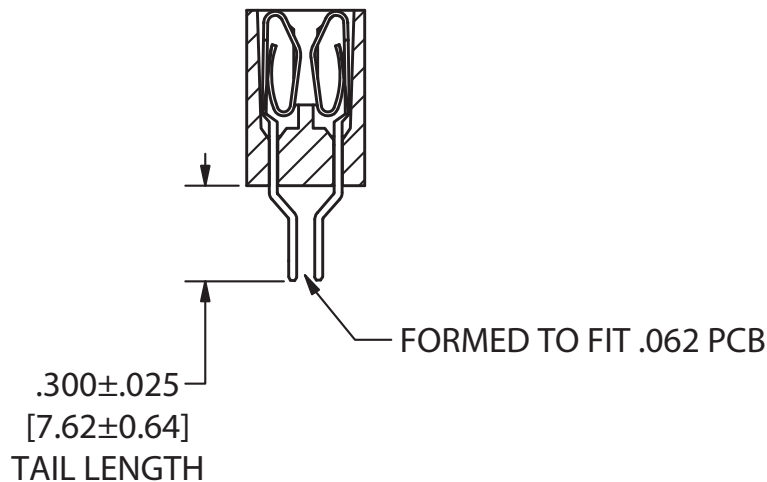
**.156" [3.96 mm] Contact Centers, .550" [13.97 mm] Insulator Height,
.025" [.64 mm] Square Card Extender**

SPECIFICATIONS

- Accommodates $.062" \pm .008" [1.57 \pm 0.20]$ PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory

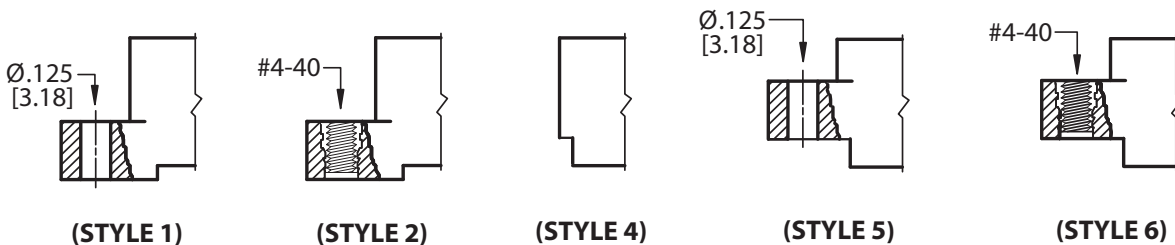


TERMINATION TYPE



Example P/N: MP~~SL~~-0156-10-D~~WE~~-4K~~TT~~

MOUNTING STYLE



**.156" [3.96 mm] Contact Centers, .550" [13.97 mm] Insulator Height,
.025" [.64 mm] Square Card Extender**



PART NUMBER OPTIONS

MPSL - 0 156 - 10 - D WE - 4 K TT

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate
Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL**
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

MODIFICATION CODE**
TT = No Standoffs

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

TERMINATION TYPE (See Opposite Page)
WE = Card Extender

READOUT
D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS		Dimensions in [] are in millimeters, all others are in inches.											
POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]						
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38	
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16	
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09	
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01	
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94	
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82	
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71	
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64	
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56	
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49	
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45	
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33	
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26	
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22	
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03	
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88	
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77	

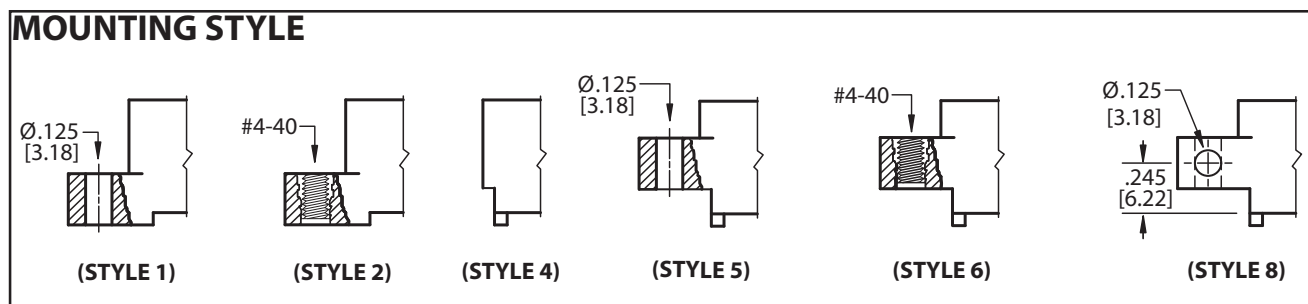
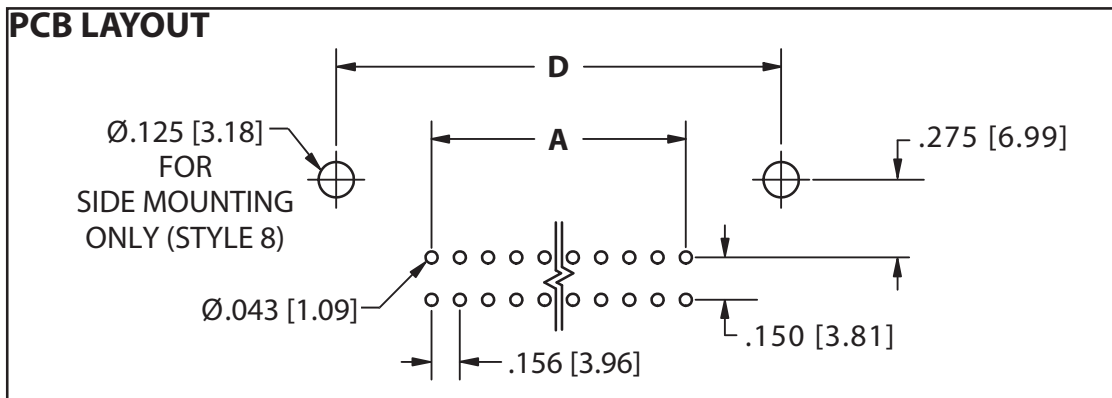
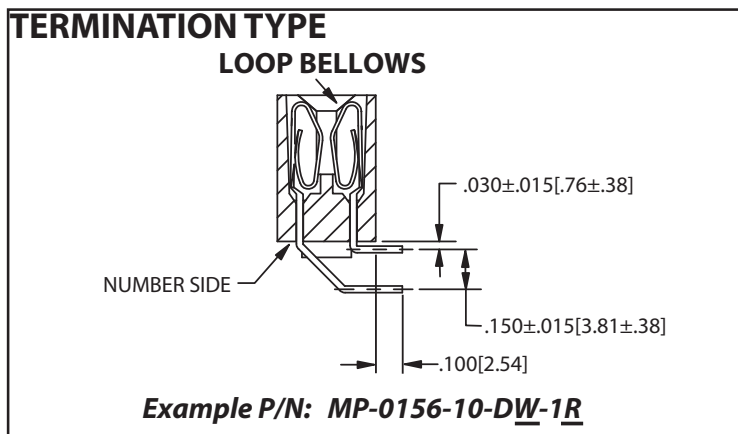
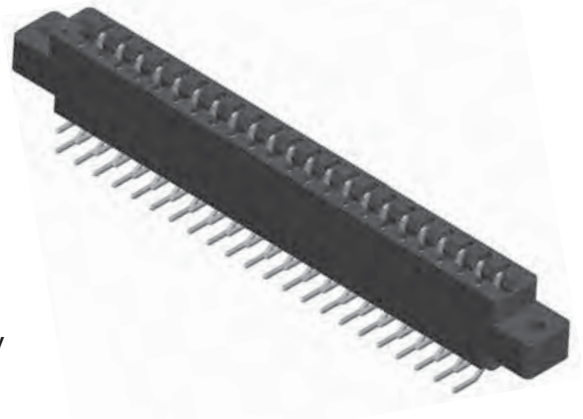
* Consult Factory for availability.



.156" [3.96 mm] Contact Centers, .610" [15.49 mm] Insulator Height, Right Angle

SPECIFICATIONS

- Accommodates $.062" \pm .008"$ [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Operating Temperature: -60°C to $+125^{\circ}\text{C}$;
Processing Temperature: 260°C / 10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory





PART NUMBER OPTIONS

MPSL - 0 156 - 10 - D W - 1 K R

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface Termination
*MPSL = .000010" Gold .000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte
MP = .000010" Overall Gold
***Requires 'K' Modification Code**

INSULATOR MATERIAL **
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

READOUT
D = Dual

MODIFICATION CODE**
R = Right Angle

PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

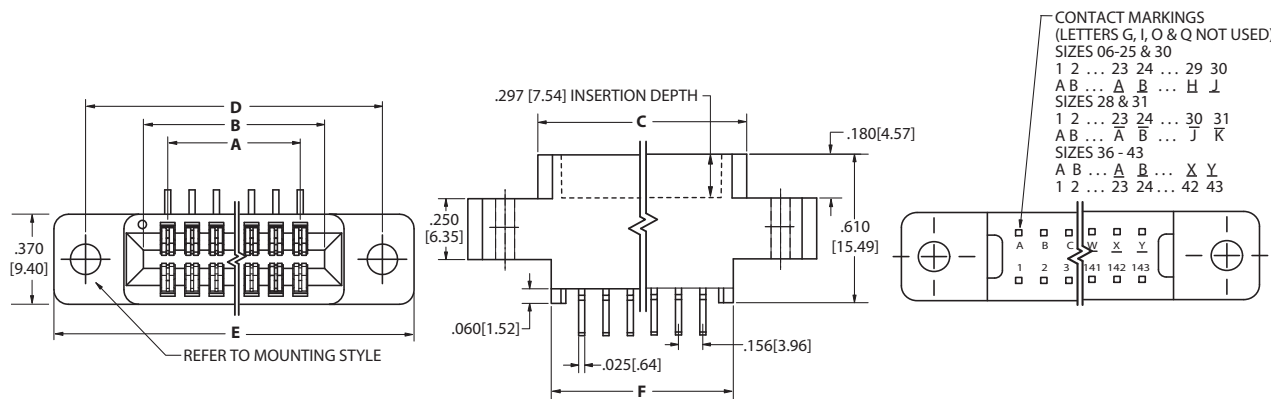
MOUNTING STYLE (See Opposite Page)
1 = .125" Clearance Hole
2 = #4-40 Threaded Insert
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert
8 = Raised, Side Mounting, .125" Clearance Hole

TERMINATION TYPE
LOOP BELLOWS
W = .025 [.64] Square

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
06/12	0.780	1.102	1.221	1.534	1.784	1.030	19.81	27.99	31.01	38.96	45.31	26.16
08/16	1.092	1.414	1.533	1.846	2.096	1.342	27.74	35.92	38.94	46.89	53.24	34.09
10/20	1.404	1.726	1.845	2.158	2.408	1.654	35.66	43.84	46.86	54.81	61.16	42.01
12/24	1.716	2.038	2.157	2.470	2.720	1.966	43.59	51.77	54.79	62.74	69.09	49.94
15/30	2.184	2.506	2.625	2.938	3.188	2.434	55.47	63.65	66.68	74.63	80.98	61.82
18/36	2.652	2.974	3.093	3.406	3.656	2.902	67.36	75.54	78.56	86.51	92.86	73.71
20/40*	2.964	3.286	3.405	3.718	3.968	3.214	75.29	83.46	86.49	94.44	100.79	81.64
22/44	3.276	3.598	3.717	4.030	4.280	3.526	83.21	91.39	94.41	102.36	108.71	89.56
24/48	3.588	3.910	4.029	4.342	4.592	3.838	91.14	99.31	102.34	110.29	116.64	97.49
25/50	3.744	4.066	4.185	4.498	4.748	3.994	95.10	103.28	106.30	114.25	120.60	101.45
28/56	4.212	4.534	4.653	4.966	5.216	4.462	106.98	115.16	118.19	126.14	132.49	113.33
30/60	4.524	4.846	4.965	5.278	5.528	4.774	114.91	123.09	126.11	134.06	140.41	121.26
31/62	4.680	5.002	5.121	5.434	5.684	4.930	118.87	127.05	130.07	138.02	144.37	125.22
36/72	5.460	5.782	5.901	6.214	6.464	5.710	138.68	146.86	149.89	157.84	164.19	145.03
40/80	6.084	6.406	6.525	6.838	7.088	6.334	154.53	162.71	165.74	173.69	180.04	160.88
43/86	6.552	6.874	6.993	7.306	7.556	6.802	166.42	174.60	177.62	185.57	191.92	172.77

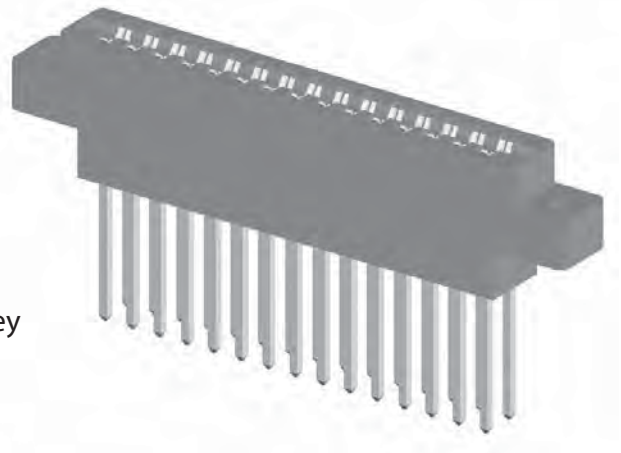
* Consult Factory for availability.



**.156" [3.96 mm] Contact Centers, .720" [18.29 mm] Insulator Height,
.045" [1.14 mm] Square Wire Wrap**

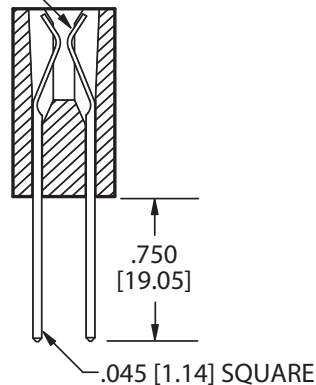
SPECIFICATIONS

- Accommodates .062" \pm .008" [1.57 \pm 0.20] PC Board
- Insulator Material available in PBT
- 5 Amp Current Rating per contact
- Operating Temperature: -60°C to +125°C;
Processing Temperature: 260°C /10 seconds
- Insulator / Contact Specifications and
Part Number Coding See Page 126-127
- P/N 04-0004-000 for In Between Contact Position Key
See Page 170 (Sold Separately)
- Molded-in Key Available - Consult Factory



TERMINATION TYPE

CANTILEVER CONTACT

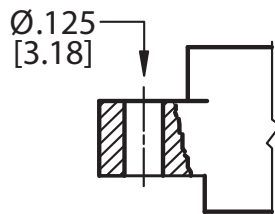


Example P/N: MP~~SL~~-0156-10-DFS-1K

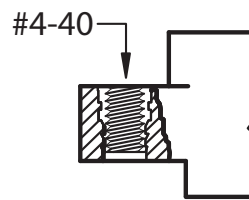
MOUNTING STYLE



(STYLE 4)



(STYLE 5)



(STYLE 6)

**.156" [3.96 mm] Contact Centers, .720" [18.29 mm] Insulator Height,
.045" [1.14 mm] Square Wire Wrap**



PART NUMBER OPTIONS

MPSL - 0 156 - 10 - D FS - 4 K

PLATING - RoHS Compliant
All Platings are Lead Free and have .000050" Nickel Underplate

Contact Surface	Termination
*MPSL = .000010" Gold	.000100" Pure Tin, Matte
*MPL = .000100" Overall Pure Tin, Matte	
MP = .000010" Overall Gold	

*Requires 'K' Modification Code

INSULATOR MATERIAL **
0 = PBT

CONTACT CENTERS
156 = .156" [3.96mm]

NUMBER OF POSITIONS
Contacts Per Row (See Position Chart Below)

MODIFICATION CODE**
PLATING MODIFICATION CODE**
K = Required on MPSL or MPL Plating
Omit for MP Plating (Overall Gold)

MOUNTING STYLE (See Opposite Page)
4 = No Mounting
5 = Raised, .125" Clearance Hole
6 = Raised, #4-40 Threaded Insert

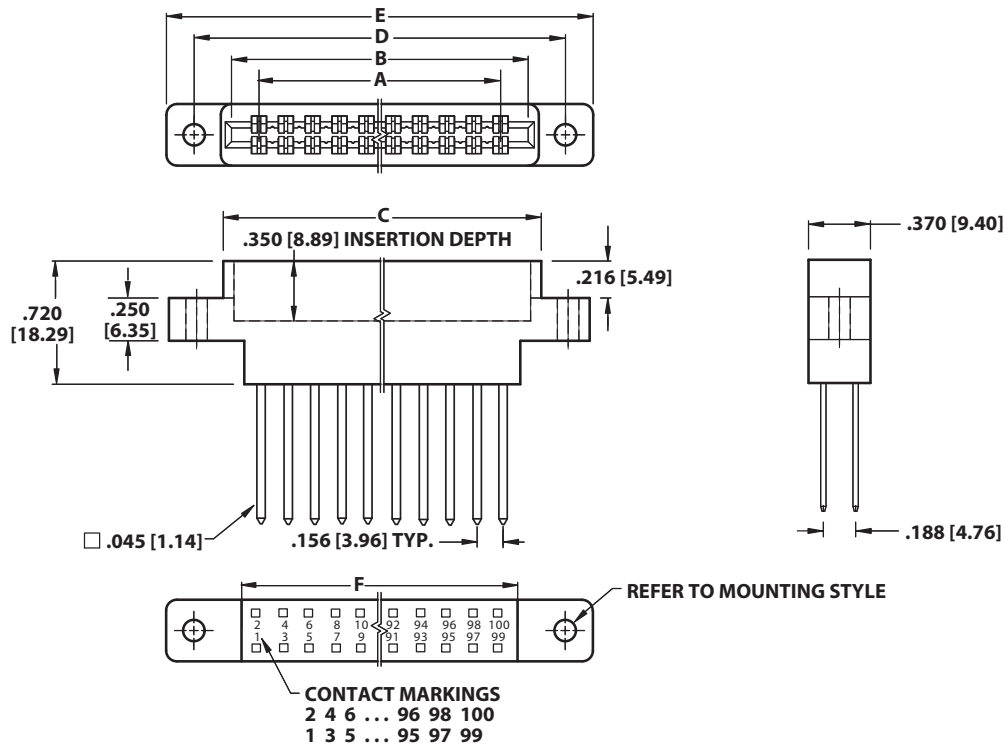
TERMINATION TYPE (See Opposite Page)
FS = .045 Square Contacts

READOUT
D = Dual

**** SEE PAGES 126-127 FOR SPECIFICATIONS AND OTHER VARIATIONS**

DIMENSIONS

Dimensions in [] are in millimeters, all others are in inches.



POSITIONS/ CONTACTS	INCHES						[MILLIMETERS]					
	A±.008	B±.008	C±.015	D±.010	E±.020	F±.015	A±0.20	B±0.20	C±0.38	D±0.25	E±0.51	F±0.38
10/20	1.404	1.724	1.848	2.158	2.408	1.604	35.66	43.79	46.94	54.81	61.16	40.74
12/24	1.716	2.036	2.160	2.470	2.720	1.916	43.59	51.71	54.86	62.74	69.09	48.67
15/30	2.184	2.504	2.628	2.938	3.188	2.384	55.47	63.60	66.75	74.63	80.98	60.55
18/36	2.652	2.972	3.096	3.406	3.656	2.852	67.36	75.49	78.64	86.51	92.86	72.44
22/44	3.276	3.596	3.720	4.030	4.280	3.476	83.21	91.34	94.49	102.36	108.71	88.29
25/50	3.744	4.064	4.188	4.498	4.748	3.944	95.10	103.23	106.38	114.25	120.60	100.18
28/56	4.212	4.532	4.656	4.966	5.216	4.412	106.98	115.11	118.26	126.14	132.49	112.06
30/60	4.524	4.844	4.968	5.278	5.528	4.724	114.91	123.04	126.19	134.06	140.41	119.99
36/72	5.460	5.780	5.904	6.214	6.464	5.660	138.68	146.81	149.96	157.84	164.19	143.76
43/86	6.552	6.872	6.996	7.306	7.556	6.752	166.42	174.55	177.70	185.57	191.92	171.50

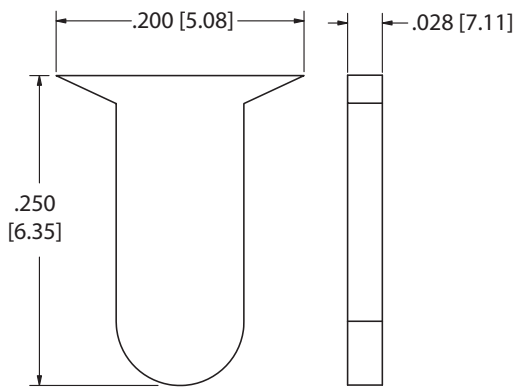
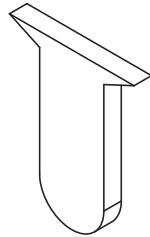


ALL KEYS ORDERED SEPARATELY

IN BETWEEN CONTACT KEY

P/N: 04-0001-000

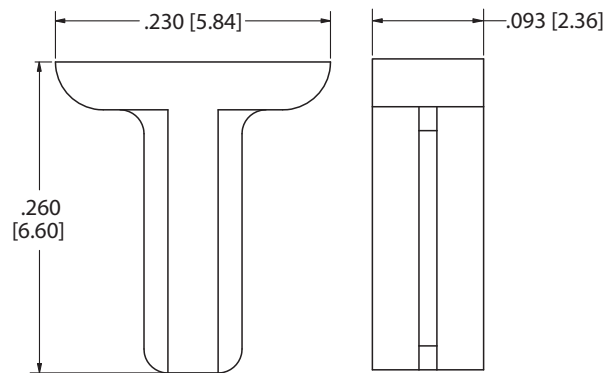
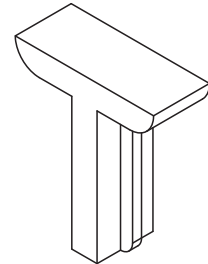
SULLINS PART: PLM-K1



IN CONTACT KEY

P/N: 04-0002-000

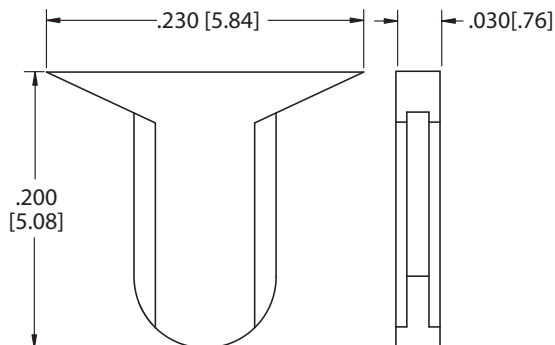
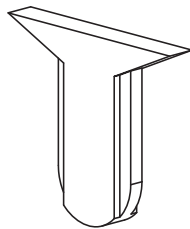
SULLINS PART: PLM-K2



IN BETWEEN CONTACT KEY

P/N: 04-0003-000

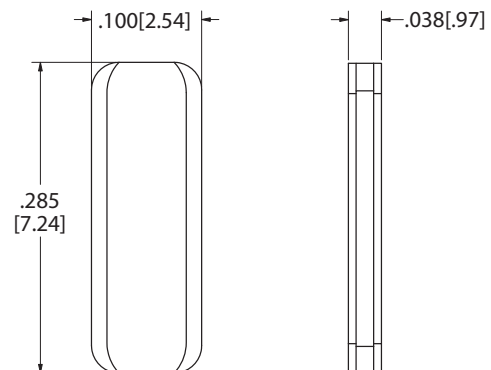
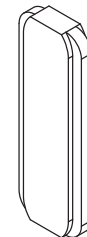
SULLINS PART: PLA-K1



IN BETWEEN CONTACT KEY

P/N: 04-0004-000

SULLINS PART: PLC-K1





Now it is faster and easier to identify connectors when you only have a part number. Simply use your part number to find the pages containing more information about your connector in this catalog and then contact us to place an order.

The underscore sign represents design variations in the part number coding. For example: if your part number is **EBA10DCAS**, you would look for **__ A __ DCA _**, which is on pages 60-61.

SULLINS CARD EDGE, HEADERS AND WAFERS

Sullins Part Number	Page	Sullins Part Number	Page	Sullins Part Number	Page
__ A __ CA _	60-61	__ A __ TM _ -S664	62-63	__ B91DHB _ -S621	28-29
__ A __ CB _	60-61	__ B __ DHA _	24-25	__ B91DHF _ -S578	26-27
__ A __ CC _	60-61	__ B __ DHB _	24-25	__ B91DHF _ -S621	26-27
__ A __ CK _	60-61	__ B __ DHF _	22-23	__ B91DHH _ -S578	26-27
__ A __ DCK _ -S288	60-61	__ B __ DHH _	22-23	__ B91DHH _ -S621	26-27
__ A __ CM _	60-61	__ B __ DHL _	22-23	__ B91DHL _ -S578	26-27
__ A __ DCM _ -S288	60-61	__ B __ DHN _	22-23	__ B91DHL _ -S621	26-27
__ A __ CS _	60-61	__ B __ DHR _	22-23	__ B91DHN _ -S578	26-27
__ A __ DCS _ -S288	60-61	__ B56DHA _ -S621	28-29	__ B91DHN _ -S621	26-27
__ A __ CT _	60-61	__ B56DHB _ -S621	28-29	__ B91DHR _ -S578	26-27
__ A __ DCT _ -S288	60-61	__ B56DHF _ -S578	26-27	__ B91DHR _ -S621	26-27
__ A __ CW _	60-61	__ B56DHF _ -S621	26-27	__ B92DHA _ -S250	32-33
__ A __ RA _	58-59	__ B56DHH _ -S578	26-27	__ B92DHA _ -S329	32-33
__ A __ RA _ -S734	58-59	__ B56DHH _ -S621	26-27	__ B92DHB _ -S250	32-33
__ A __ RE _	58-59	__ B56DHL _ -S578	26-27	__ B92DHB _ -S329	32-33
__ A __ DRE _ -S13	58-59	__ B56DHL _ -S621	26-27	__ B92DHF _ -S250	30-31
__ A __ RE _ -S734	58-59	__ B56DHN _ -S578	26-27	__ B92DHF _ -S329	30-31
				__ B92DHF _ -S330	30-31
__ A __ RJ _	58-59	__ B56DHN _ -S621	26-27	__ B92DHF _ -S378	30-31
__ A __ RJ _ -S734	58-59	__ B56DHR _ -S578	26-27	__ B92DHH _ -S250	30-31
__ A __ RM _	60-61	__ B56DHR _ -S621	26-27	__ B92DHH _ -S329	30-31
__ A __ RM _ -S273	62-63	__ B60DHA _ -S621	32-33	__ B92DHH _ -S330	30-31
__ A __ DRM _ -S288	60-61	__ B60DHA _ -S793	32-33	__ B92DHH _ -S378	30-31
__ A __ RM _ -S664	62-63	__ B60DHB _ -S621	32-33	__ B92DHL _ -S250	30-31
__ A __ RS _	60-61	__ B60DHB _ -S793	32-33	__ B92DHL _ -S329	30-31
__ A __ RS _ -S273	62-63	__ B60DHF _ -S578	30-31	__ B92DHL _ -S330	30-31
__ A __ DRS _ -S288	60-61	__ B60DHF _ -S621	30-31	__ B92DHL _ -S378	30-31
__ A __ RS _ -S664	62-63	__ B60DHH _ -S578	30-31	__ B92DHN _ -S250	30-31
__ A __ RT _	58-59	__ B60DHH _ -S621	30-31	__ B92DHN _ -S329	30-31
__ A __ DRT _ -S13	58-59	__ B60DHL _ -S578	30-31	__ B92DHN _ -S330	30-31
__ A __ RT _ -S734	58-59	__ B60DHL _ -S621	30-31	__ B92DHN _ -S378	30-31
__ A __ RX _	58-59	__ B60DHN _ -S578	30-31	__ B92DHR _ -S250	30-31
__ A __ RX _ -S734	58-59	__ B60DHN _ -S621	30-31	__ B92DHR _ -S329	30-31
__ A __ RY _	58-59	__ B60DHR _ -S578	30-31	__ B92DHR _ -S330	30-31
__ A __ DRY _ -S13	58-59	__ B60DHR _ -S621	30-31	__ B92DHR _ -S378	30-31
__ A __ RY _ -S734	58-59	__ B66DHA _ -S621	28-29		
		__ B66DHB _ -S621	28-29	__ B106DHA _ -S621	28-29
__ A __ TA _	60-61	__ B66DHF _ -S578	26-27	__ B106DHB _ -S621	28-29
__ A __ TA _ -S273	62-63	__ B66DHF _ -S621	26-27	__ B106DHF _ -S578	26-27
__ A __ TA _ -S664	62-63	__ B66DHH _ -S578	26-27	__ B106DHF _ -S621	26-27
__ A __ TB _	60-61	__ B66DHH _ -S621	26-27	__ B106DHH _ -S578	26-27
__ A __ TB _ -S273	62-63	__ B66DHL _ -S578	26-27	__ B106DHH _ -S621	26-27
__ A __ TB _ -S664	62-63	__ B66DHL _ -S621	26-27	__ B106DHL _ -S578	26-27
__ A __ TE _	58-59	__ B66DHL _ -S621	26-27	__ B106DHL _ -S621	26-27
__ A __ TE _ -S734	58-59	__ B66DHN _ -S578	26-27	__ B106DHL _ -S621	26-27
__ A __ TK _	60-61	__ B66DHN _ -S621	26-27	__ B106DHN _ -S578	26-27
__ A __ DTK _ -S288	60-61	__ B66DHR _ -S578	26-27	__ B106DHN _ -S621	26-27
__ A __ TM _	60-61	__ B66DHR _ -S621	26-27	__ B106DHR _ -S578	26-27
__ A __ TM _ -S273	62-63	__ B91DHA _ -S621	28-29	__ B106DHR _ -S621	26-27



PART NUMBER INDEX, Cont.

Sullins Part Number	Page	Sullins Part Number	Page	Sullins Part Number	Page
__ B __ DKB __	36-37	__ C __ DCS __	48-49	__ C __ DKA __-S1191	50-51
__ B __ DKB __-S1075	36-37	__ C __ DCS __-S36	56-57	__ C __ DKA __-S1243	50-51
__ B __ DKB __-S1076	36-37	__ C __ DCS __-S288	48-49	__ C __ KD __	48-49
__ B __ DKB __-S1176	36-37	__ C __ CS __-S371	54-55	__ C __ DKD __-S1191	50-51
__ B __ DLR __	34-35	__ C __ CS __-S420	54-55	__ C __ DKD __-S1243	50-51
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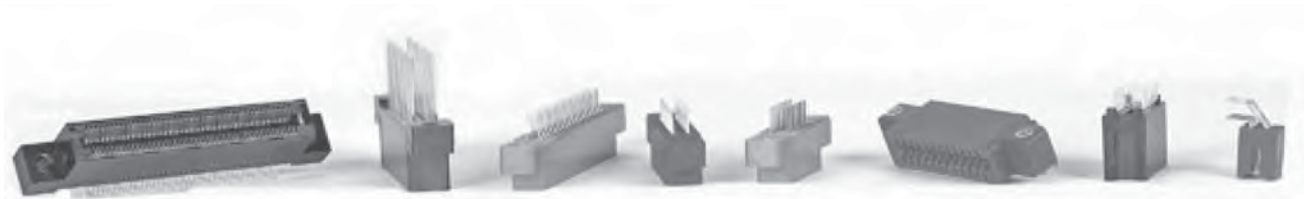


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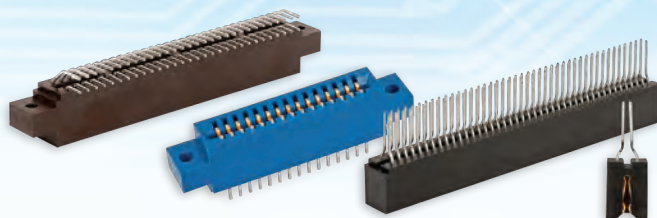
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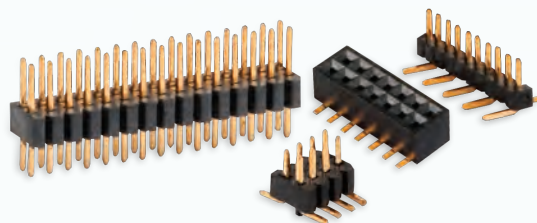
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