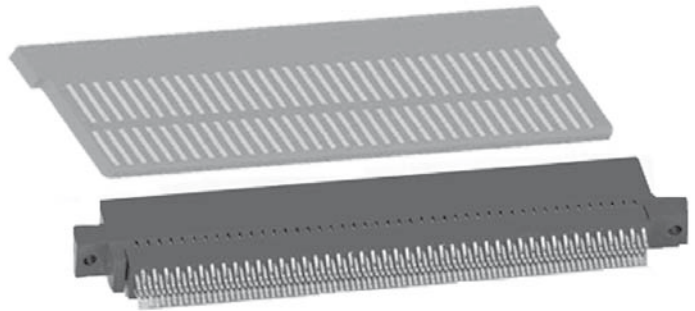


Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers
High Density, Card Extender, Dip Solder

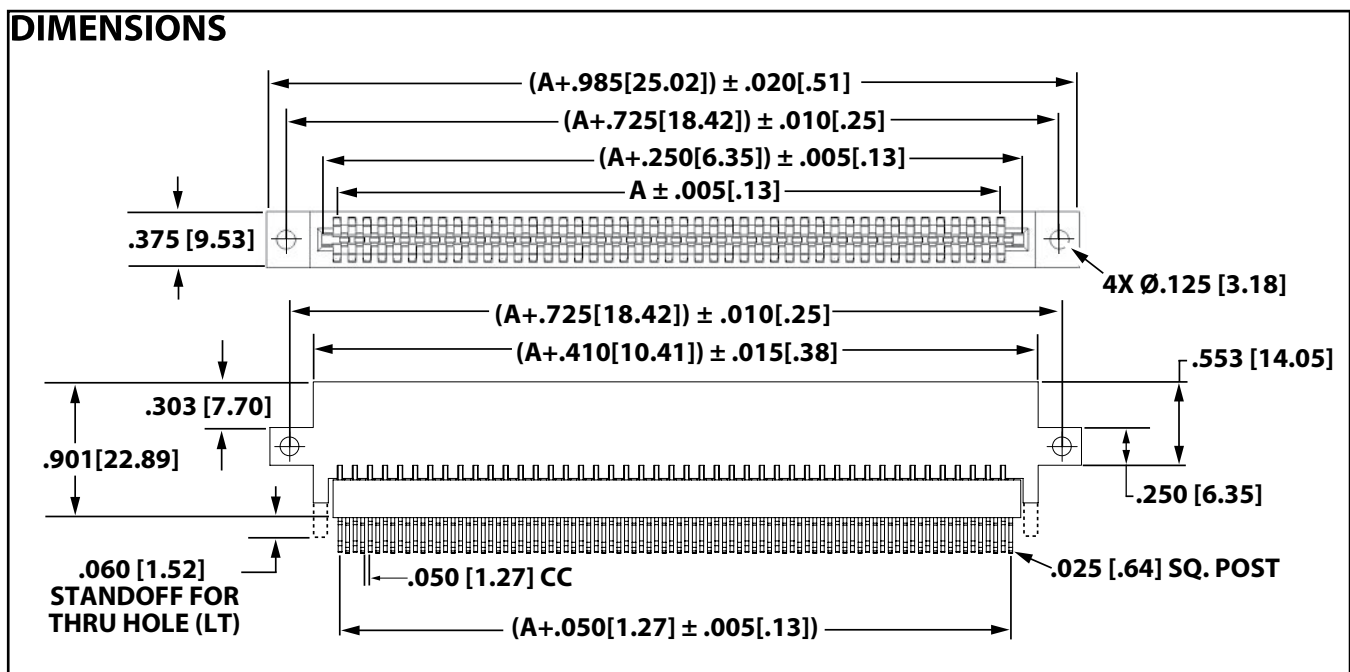
SPECIFICATIONS

- .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] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/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

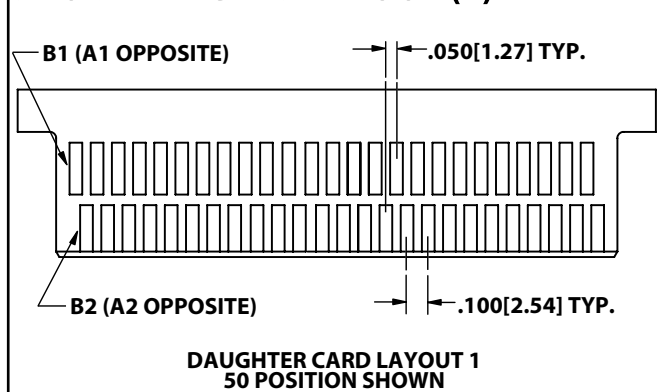


HIGH DENSITY HIGH TEMPERATURE HIGH CYCLE HIGH RELIABILITY

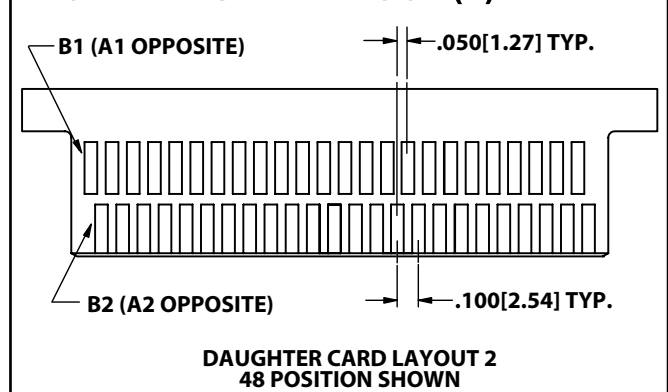
DIMENSIONS



DAUGHTER CARD LAYOUT (1)



DAUGHTER CARD LAYOUT (2)





Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers
High Density, Card Extender, Dip Solder

PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
- R = PPS and PA9T/Phosphor Bronze
Operating Temperature: 125°C
- J = PA9T/Beryllium Copper
Operating Temperature: 150°C
- A = PPS and 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]

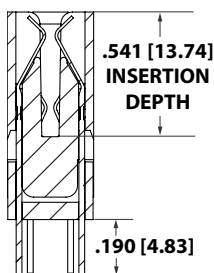
Positions	Dimension A (see opposite page)			Daughter Card Layout
	No. of Contacts	Inches	[MM]	
06	12	0.200	5.08	1
08	16	0.300	7.62	2
10	20	0.400	10.16	1
12	24	0.500	12.70	2
14	28	0.600	15.24	1
16	32	0.700	17.78	2
18	36	0.800	20.32	1
20	40	0.900	22.86	2
22	44	1.000	25.40	1
24	48	1.100	27.94	2
26	52	1.200	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

A C B 10 D LT H - Sxxx

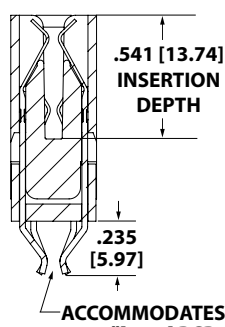
MODIFICATION CODE (Consult Factory)
OMIT FOR STANDARD

TERMINATION

**DIP SOLDER
LT**



**CARD EXTENDER
LR**

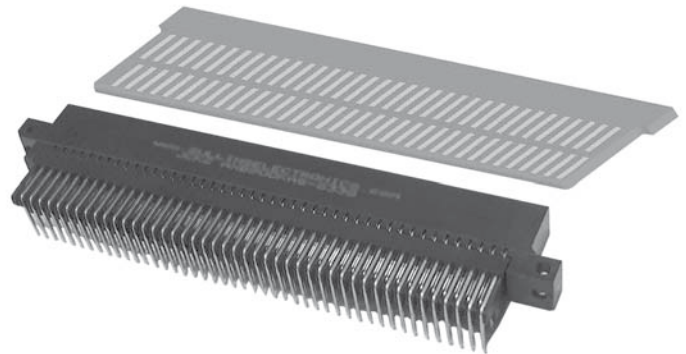
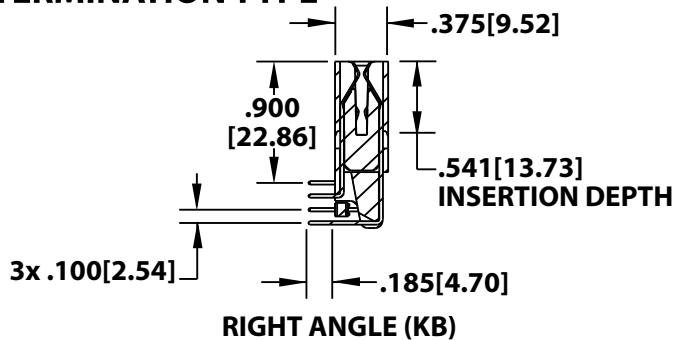


MOUNTING STYLE

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	

**Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers
High Density, Right Angle****SPECIFICATIONS**

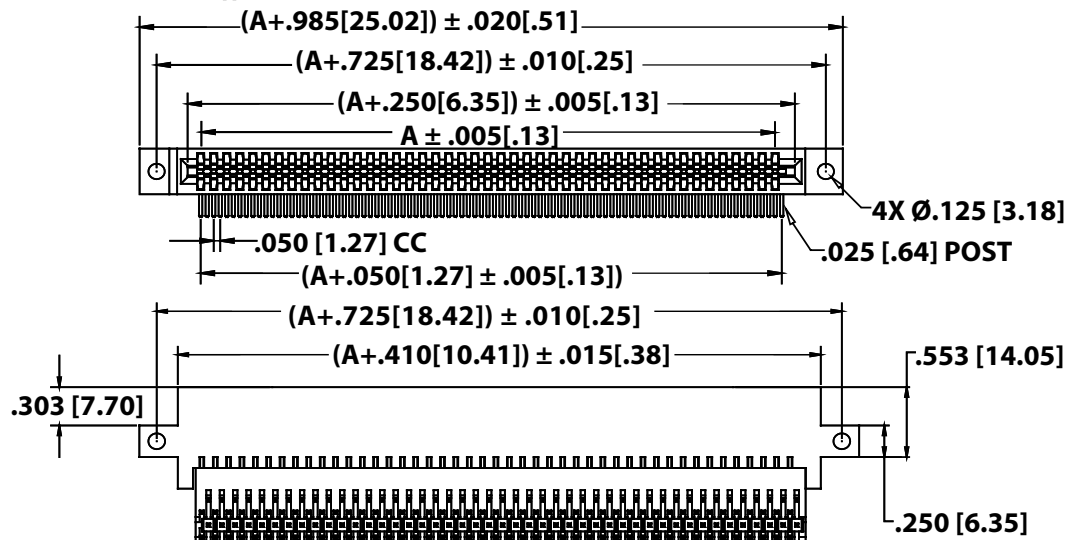
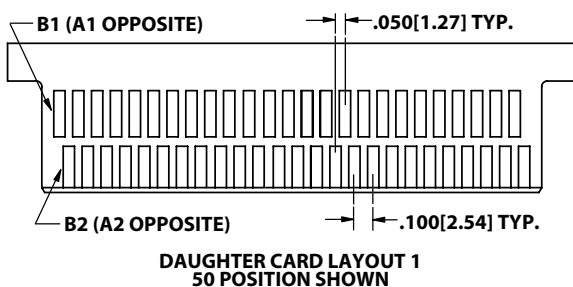
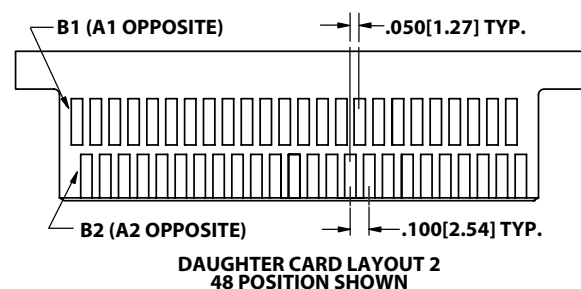
- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062" \pm .008" [1.57 \pm .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL 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

**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 CODING

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
R = PPS and PA9T/Phosphor Bronze
Operating Temperature: 125°C
J = PA9T/Beryllium Copper
Operating Temperature: 150°C
A = PPS and 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]

A C B 10 D KB S - S1075

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)			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

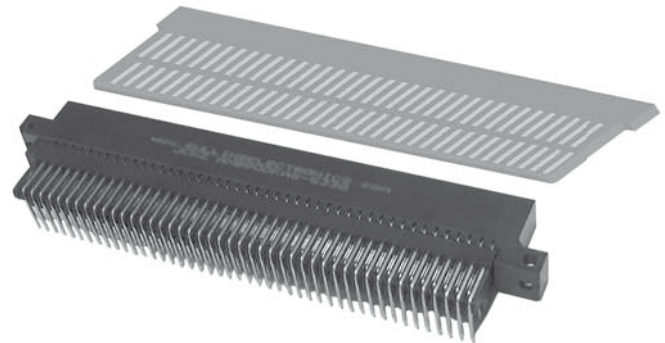
MOUNTING STYLE		
H	MOUNTING HOLES	
S	SIDE MOUNTING HOLES	
I	#4-40 THREADED INSERTS	
A	#4-40 THREADED INSERTS IN SIDE HOLES	
Z	FLUSH EARS WITH SIDE MOUNTING HOLES	
D	FLUSH EARS WITH Ø.125 HOLES	
T	FLUSH EARS WITH #4-40 THREADED INSERTS	
V	FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES	
N	NO MOUNTING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

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

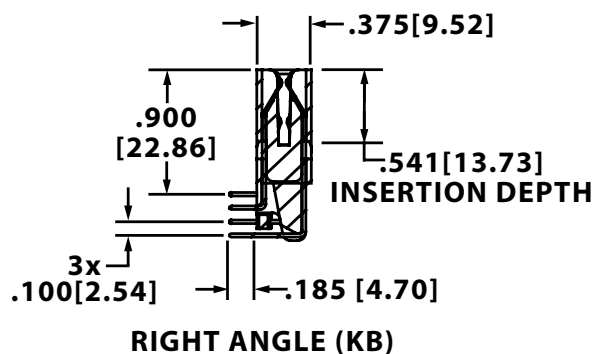


SPECIFICATIONS

- .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: PPS/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



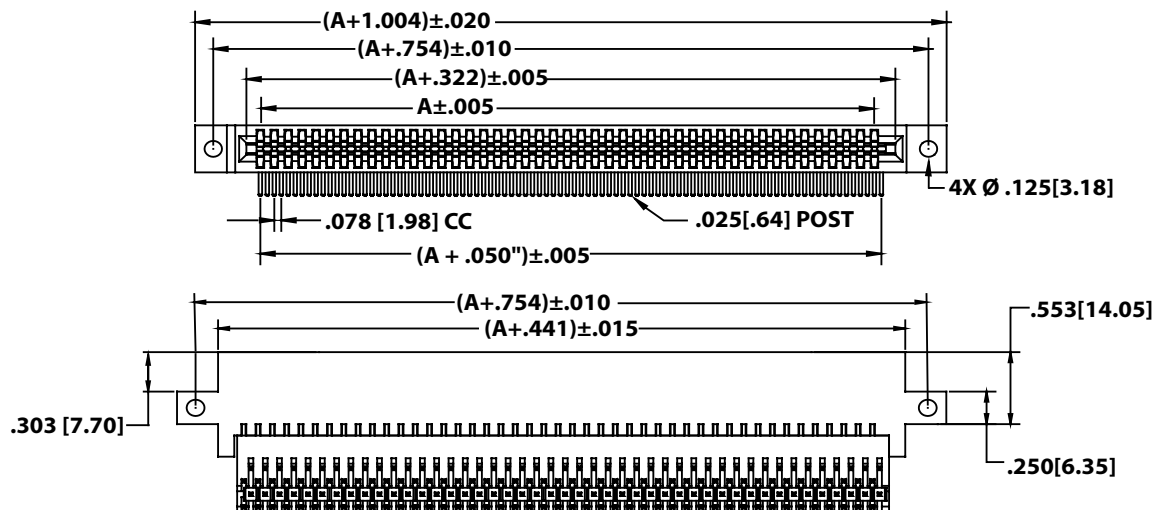
TERMINATION TYPE



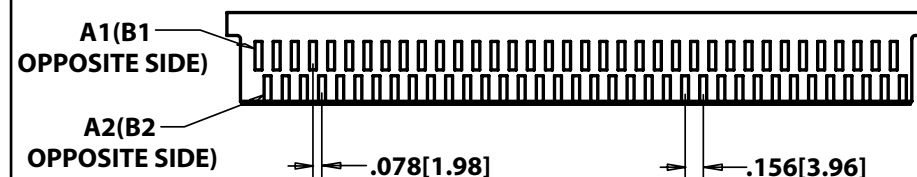
HIGH DENSITY
HIGH TEMPERATURE
HIGH CYCLE
HIGH RELIABILITY

DIMENSIONS

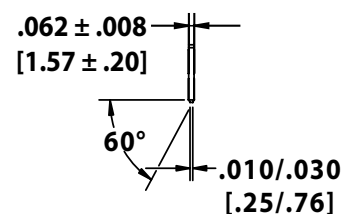
Dimensions in [] are in millimeters, all others are in inches.



DAUGHTER CARD LAYOUT



DAUGHTER CARD SIDE VIEW





PART NUMBER CODING

MATERIALS (INSULATOR/CONTACT)

- G = PA9T/Phosphor Bronze
Operating Temperature: 125°C
- R = PPS and PA9T/Phosphor Bronze
Operating Temperature: 125°C
- J = PA9T/Beryllium Copper
Operating Temperature: 150°C
- A = PPS and 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]

A 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

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)



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 5 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:	125 VDC	250 VDC	600 VDC	800 VDC	1500 VDC	1800 VDC
	225 VAC	300 VAC	750 VAC	750 VAC	900 VAC	950 VAC

Current Rating: 1 to 5 amp per contact

Voltage Drop: 30 milli volt at rated current

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		
MATERIALS (Insulator/Contact)										MODIFICATION CODE (Consult Factory) 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 = .025" [.64mm] Square Post, Cantilever	
										Dip Solder - High Profile	
										RS = .025 [.64mm] Square Tail, Loop Bellows	
										CS, 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	
										RA, SA = Right Angle, Full Bellows	
										TA, TB, TM = Right Angle, Loop Bellows	
										CA, CB, CC = Right Angle, Hairpin Bellows	
										HA = Right Angle, .050" & 1mm Contact Centers	
										HB = Right Angle, .050" Contact Centers	
										KA, KE, KU, KJ = .025" [.64mm] Square Post, Cantilever	
										Surface Mount	
										HF = Surface Mount, .050" & 1mm Contact Centers	
										Wire Wrap	
										RM = .025" [.64mm] Square Post, Loop Bellows	
										CM, MC = .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 Edgecards	
										MW, MS = Dip Solder	
										MA, MV, MB = Right Angle	
										MD, MJ, MK = Right Angle	
										MR, MN = Card Extender	
										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 Edgcard											
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.											