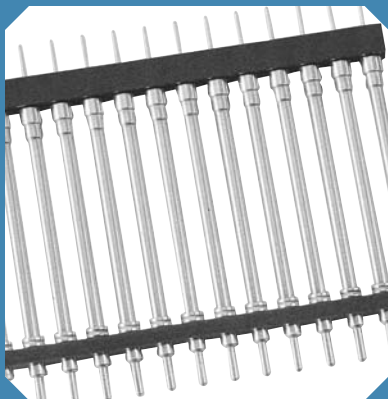


Board to Board Connectors



Features:

- Male and female connectors are designed in mating pairs.
- .100/(2.54mm) row to row pitch.
- High reliability screw-machined terminals with closed-end construction for 100% anti-wicking of solder.
- For surface mount options, consult factory.
- Reliable mechanical support.
- Custom configurations available.

Specifications:

Terminals:

Brass - Copper Alloy
(C36000) ASTM-B-16

Contacts:

Beryllium Copper
(C17200) ASTM-B-194

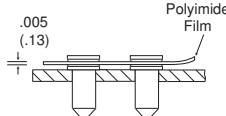
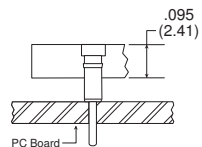
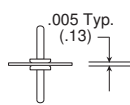
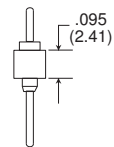
Plating:

G - Gold over Nickel
M - Matte Tin over Nickel
T - Tin/Lead over Nickel

Gold per ASTM-B-488
Matte Tin per ASTM545-97
Tin/Lead per MIL-P-81728
Nickel per QQ-N-290

.100/(2.54mm) Pitch Board to Board Connectors Molded and Peel-A-Way® Insulators

Table of Models

Female	Single Row	Dual Row	Description: Peel-A-Way® (KSS, DKS) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)	
	KSS	DKS		
Male	Single Row	Dual Row	Desc: Molded (RNB, RLNB, RDRS) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)	
	RNB/RLNB	RDRS		
Female	Single Row	Dual Row	Description: Peel-A-Way® (KSA, DKA) Material: Polyimide Film Index: -269°C to 400°C (-452°F to 752°F)	
	KSA	DKA		
Male	Single Row	Dual Row	Description: Molded (RNA, RDRA) Material: High Temp. Liquid Crystal Polymer (LCP) Index: -40°C to 260°C (-40°F to 500°F)	
	RNA	RDRA		

RNB/RLNB replaces HNB/HLNB and NB/LNB. RDRS replaces HDRS and DRS.
RNA replaces HNA and NA. RDRA replaces HDRA and DRA.

How To Order

Female

Body Type RNB 010 - 01 **Terminal Type** M **Terminal Plating** G

RoHS Compliant Insulators:
KSS - Single Row Peel-A-Way®
RNB* - Single Row Hi-Temp Molded
RLNB* - Single Row Hi-Temp Molded
DKS - Dual Row Peel-A-Way®
RDRS - Dual Row Hi-Temp Molded

Total Number of Pins
KSS: 2-100, DKS: 4-200
RNB/RLNB: 3-32, RDRS: 20-70

*RNB - Terminal head above insulator
*RLNB - Terminal head flush with insulator

Contact Plating
RoHS Compliant:
G - Gold
T - Tin/Lead

Terminal Plating
RoHS Compliant:
G - Gold
M - Matte Tin
T - Tin/Lead

Terminal Type
See options

Male

Body Type RNA 010 - 68 **Terminal Type** M **Terminal Plating** G

RoHS Compliant Insulators:
KSA - Single Row Peel-A-Way®
RNA - Single Row Hi-Temp Molded
DKA - Dual Row Peel-A-Way®
RDRA - Dual Row Hi-Temp Molded

Total Number of Pins
KSA: 2-100, DKA: 4-200
RNA: 3-32, RDRA: 20-70

Terminal Plating
RoHS Compliant:
G - Gold
M - Matte Tin
T - Tin/Lead

Terminal Type
See options

Note: Terminals plated with Matte Tin are available only with Gold plated contacts.
Quick-Turn delivery is not available on products with Matte Tin plating.

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.

inch/(mm)



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.100/(2.54mm) Pitch Board to Board Connectors

Molded and Peel-A-Way® Insulators



Standard Female Quick-Turn Terminals

Additional standard and custom terminals available.
See Terminals section or consult factory.

Type -210 Peel-A-Way® only	Type -85 Peel-A-Way® only	Type -33 Peel-A-Way® only	Type -04
Type -51	Type -49 Not for use with RNB.	Type -01 Molded only	Type -299 Available in Peel-A-Way® or FR-4 (use FNB body type) only. (Not Quick-Turn)

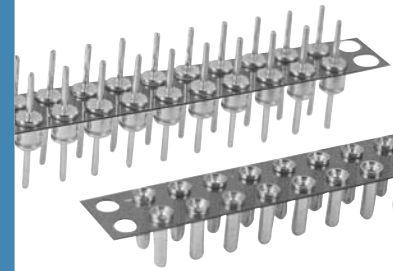
Standard Male Quick-Turn Terminals

Type -79 Peel-A-Way® only	Type -80 Peel-A-Way® only	Type -81 Peel-A-Way® only	Type -68
Type -43	Type -185	Type -42	Type -71

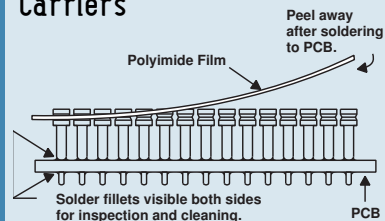
Standard Male Terminals

Type -444	Type -398	Type -399	Type -403

Board to Board Connectors



Peel-A-Way® Removable Carriers



1. Place socket on PC board.
2. Send PC board and socket through soldering operation.
3. Peel away polyimide film carrier for complete solder joint visibility or leave in place for added stability.

Available Online:

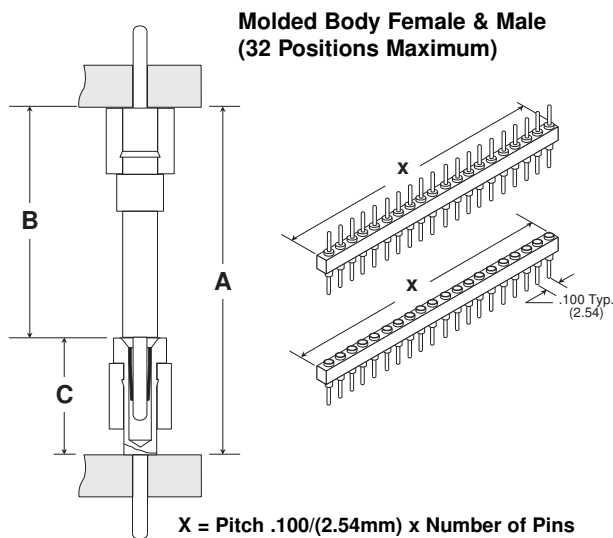
- RoHS Qualification Test Report

See following pages for typical board to board spacing configuration and additional dimensional information.



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Dimensional Information



Order one each Male & Female to get the required "A" dim.

B	C	A	Male Part #	Female Part #
.155/(3.94)	.083/(2.11)	.238/(6.05)	RNA020-444G	FNB020-299MG
.155/(3.94)	.095/(2.41)	.250/(6.35)	RNA020-444G	RLNB020-49MG
.155/(3.94)	.120/(3.05)	.275/(6.99)	RNA020-444G	RLNB020-04MG
.155/(3.94)	.130/(3.30)	.285/(7.24)	RNA020-444G	RNB020-51MG
.210/(5.33)	.083/(2.11)	.293/(7.44)	RNA020-68G	FNB020-299MG
.210/(5.33)	.095/(2.41)	.305/(7.74)	RNA020-68G	RLNB020-49MG
.155/(3.94)	.165/(4.19)	.320/(8.13)	RNA020-444G	RNB020-01MG
.210/(5.33)	.120/(3.05)	.330/(8.37)	RNA020-68G	RLNB020-04MG
.210/(5.33)	.130/(3.30)	.340/(8.63)	RNA020-68G	RNB020-51MG
.210/(5.33)	.165/(4.19)	.375/(9.52)	RNA020-68G	RNB020-01MG
.335/(8.51)	.083/(2.11)	.418/(10.62)	RNA020-43G	FNB020-299MG
.335/(8.51)	.095/(2.41)	.430/(10.92)	RNA020-43G	RLNB020-49MG
.335/(8.51)	.120/(3.05)	.455/(11.56)	RNA020-43G	RLNB020-04MG
.379/(9.63)	.083/(2.11)	.462/(11.74)	RNA020-399G	FNB020-299MG
.335/(8.51)	.130/(3.30)	.465/(11.81)	RNA020-43G	RNB020-51MG
.379/(9.63)	.095/(2.41)	.474/(12.04)	RNA020-399G	RLNB020-49MG
.379/(9.63)	.120/(3.05)	.499/(12.68)	RNA020-399G	RLNB020-04MG
.335/(8.51)	.165/(4.19)	.500/(12.70)	RNA020-48G	RNB020-01MG
.379/(9.63)	.130/(3.30)	.509/(12.93)	RNA020-399G	RNB020-51MG
.379/(9.63)	.165/(4.19)	.544/(13.82)	RNA020-399G	RNB020-01MG
.500/(12.70)	.083/(2.11)	.583/(14.81)	RNA020-185G	FNB020-299MG
.500/(12.70)	.095/(2.41)	.595/(15.11)	RNA020-185G	RLNB020-49MG
.500/(12.70)	.120/(3.05)	.620/(15.75)	RNA020-185G	RLNB020-04MG
.500/(12.70)	.130/(3.30)	.630/(16.00)	RNA020-185G	RNB020-51MG
.500/(12.70)	.165/(4.19)	.665/(16.89)	RNA020-185G	RNB020-01MG
.585/(14.86)	.083/(2.11)	.668/(16.87)	RNA020-42G	FNB020-299MG
.585/(14.86)	.095/(2.41)	.680/(17.27)	RNA020-42G	RLNB020-49MG
.585/(14.86)	.120/(3.05)	.705/(17.91)	RNA020-42G	RLNB020-04MG
.585/(14.86)	.130/(3.30)	.715/(18.16)	RNA020-42G	RNB020-51MG
.585/(14.86)	.165/(4.19)	.750/(19.05)	RNA020-42G	RLNB020-01MG
.679/(17.25)	.083/(2.11)	.762/(19.36)	RNA020-398G	FNB020-299MG
.679/(17.25)	.095/(2.41)	.774/(19.66)	RNA020-398G	RLNB020-49MG
.679/(17.25)	.120/(3.05)	.799/(20.30)	RNA020-398G	RLNB020-04MG
.679/(17.25)	.130/(3.30)	.809/(20.55)	RNA020-398G	RNB020-51MG
.750/(19.06)	.083/(2.11)	.833/(21.17)	RNA020-403G	FNB020-299MG
.679/(17.25)	.165/(4.19)	.844/(21.44)	RNA020-398G	RNB020-01MG
.750/(19.06)	.095/(2.41)	.845/(21.47)	RNA020-403G	RLNB020-49MG
.750/(19.06)	.120/(3.05)	.870/(22.11)	RNA020-403G	RLNB020-04MG
.750/(19.06)	.130/(3.30)	.880/(22.36)	RNA020-403G	RNB020-51MG
.750/(19.06)	.165/(4.19)	.915/(23.25)	RNA020-403G	RNB020-01MG
.835/(21.21)	.083/(2.11)	.918/(23.32)	RNA020-71G	FNB020-299MG
.835/(21.21)	.095/(2.41)	.930/(23.62)	RNA020-71G	RLNB020-49MG
.835/(21.21)	.120/(3.05)	.955/(24.26)	RNA020-71G	RLNB020-04MG
.835/(21.21)	.130/(3.30)	.965/(24.51)	RNA020-71G	RNB020-51MG
.835/(21.21)	.165/(4.19)	1.000/(25.40)	RNA020-71G	RLNB020-01MG

20 position single row part numbers shown. See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.



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inch/(mm)

Dimensional Information

Order one each Male & Female to get the required "A" dim.

B	C	A	Male Part #	Female Part #	Fig.
.030/(.76)	.015/(.38)	.045/(1.14)	KSA020-79G	KSS020-210MG	3
.030/(.76)	.030/(.76)	.060/(1.52)	KSA020-79G	KSS020-85MG	3
.070/(1.78)	.015/(.38)	.085/(2.16)	KSA020-80G	KSS020-210MG	3
.085/(2.16)	.015/(.38)	.100/(2.54)	KSA020-81G	KSS020-210MG	3
.070/(1.78)	.030/(.76)	.100/(2.54)	KSA020-80G	KSS020-85MG	3
.030/(.76)	.083/(2.11)	.113/(2.87)	KSA020-79G	FNB020-299MG	1
.085/(2.16)	.030/(.76)	.115/(2.92)	KSA020-81G	KSS020-85MG	3
.030/(.76)	.095/(2.41)	.125/(3.18)	KSA020-79G	KSS020-49MG	3
.030/(.76)	.120/(3.05)	.150/(3.81)	KSA020-79G	KSS020-04MG	3
.070/(1.78)	.083/(2.11)	.153/(3.89)	KSA020-80G	FNB020-299MG	1
.030/(.76)	.130/(3.30)	.160/(4.06)	KSA020-79G	KSS020-51MG	3
.070/(1.78)	.095/(2.41)	.165/(4.19)	KSA020-80G	KSS020-49MG	3
.085/(2.16)	.083/(2.11)	.168/(4.27)	KSA020-81G	FNB020-299MG	1
.155/(3.94)	.015/(.38)	.170/(4.32)	RNA020-444G	KSS020-210MG	2
.085/(2.16)	.095/(2.41)	.180/(4.57)	KSA020-81G	KSS020-49MG	3
.155/(3.94)	.031/(.79)	.186/(4.72)	RNA020-444G	KSS020-85MG	2
.070/(1.78)	.120/(3.05)	.190/(4.83)	KSA020-80G	KSS020-04MG	3
.030/(.76)	.165/(4.19)	.195/(4.95)	KSA020-79G	KSS020-33MG	3
.070/(1.78)	.130/(3.30)	.200/(5.08)	KSA020-80G	KSS020-51MG	3
.085/(2.16)	.120/(3.05)	.205/(5.21)	KSA020-81G	KSS020-04MG	3
.085/(2.16)	.130/(3.30)	.216/(5.47)	KSA020-81G	KSS020-51MG	3
.210/(5.33)	.015/(.38)	.225/(5.72)	RNA020-68G	KSS020-210MG	2
.070/(1.78)	.165/(4.19)	.235/(5.97)	KSA020-80G	KSS020-33MG	3
.210/(5.33)	.031/(.79)	.241/(6.12)	RNA020-68G	KSS020-85MG	2
.085/(2.16)	.165/(4.19)	.250/(6.35)	KSA020-81G	KSS020-33MG	3
.335/(8.51)	.015/(.38)	.350/(8.89)	RNA020-43G	KSS020-210MG	2
.379/(9.63)	.015/(.38)	.364/(9.25)	RNA020-399G	KSS020-210MG	2
.335/(8.51)	.031/(.79)	.366/(9.30)	RNA020-43G	KSS020-85MG	2
.379/(9.63)	.031/(.79)	.410/(10.42)	RNA020-399G	KSS020-85MG	2
.500/(12.70)	.015/(.38)	.515/(13.08)	RNA020-185G	KSS020-210MG	2
.500/(12.70)	.031/(.79)	.531/(13.79)	RNA020-185G	KSS020-85MG	2
.585/(14.86)	.015/(.38)	.600/(15.24)	RNA020-42G	KSS020-210MG	2
.585/(14.86)	.031/(.79)	.616/(15.65)	RNA020-42G	KSS020-85MG	2
.679/(17.25)	.015/(.38)	.694/(17.63)	RNA020-398G	KSS020-210MG	2
.679/(17.25)	.031/(.79)	.710/(18.04)	RNA020-398G	KSS020-85MG	2
.750/(19.06)	.015/(.38)	.765/(19.44)	RNA020-403G	KSS020-210MG	2
.750/(19.06)	.031/(.79)	.781/(19.85)	RNA020-403G	KSS020-85MG	2
.835/(21.21)	.015/(.38)	.850/(21.59)	RNA020-71G	KSS020-210MG	2
.835/(21.21)	.031/(.79)	.866/(22.00)	RNA020-71G	KSS020-85MG	2

20 position single row part numbers shown. See How To Order section for ordering information.

If required "A" dimension is not shown, consult factory.

Figure 1
Molded Body Female & Peel-A-Way® Male (32 Positions Maximum)

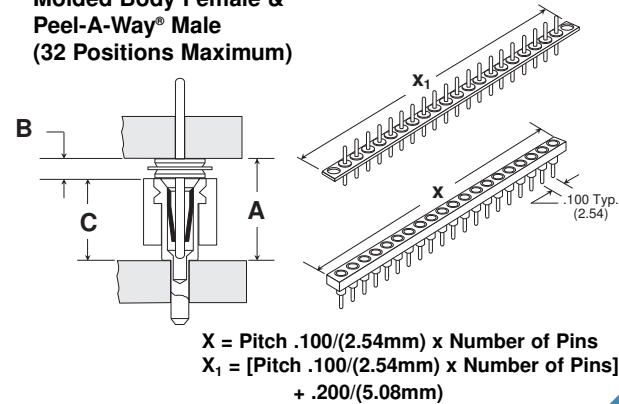


Figure 2
Peel-A-Way® Female & Molded Body Male (32 Positions Maximum)

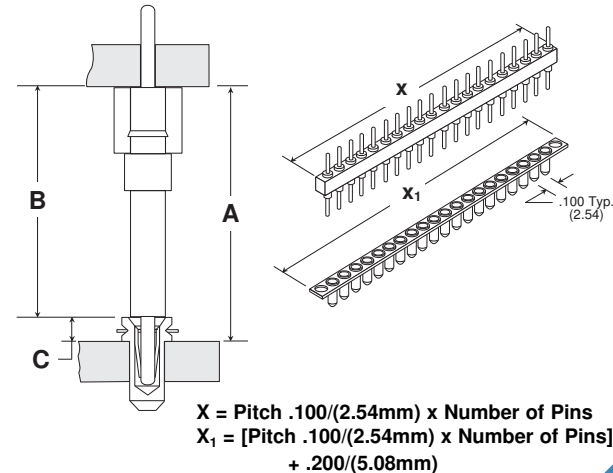
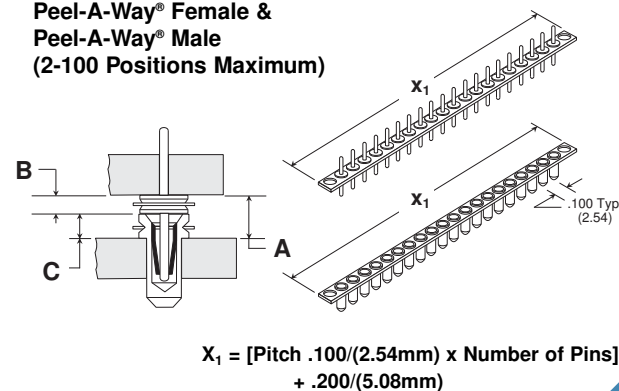


Figure 3
Peel-A-Way® Female & Peel-A-Way® Male (2-100 Positions Maximum)



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