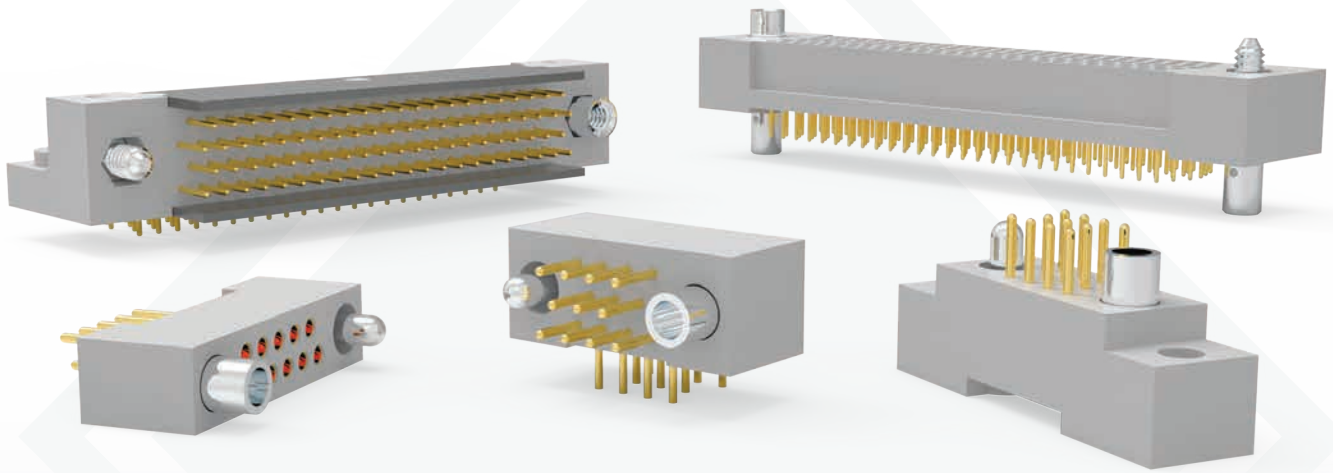


molex



AirBorn R Series

Rectangular Connectors — 0.075" (1.91mm)

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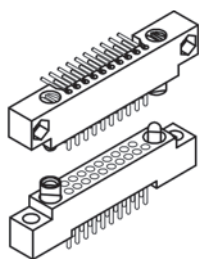
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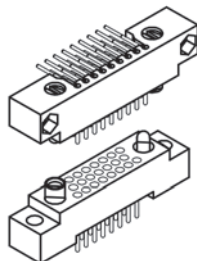
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DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RIGHT-ANGLE PLUG MATING TO STRAIGHT RECEPTACLE

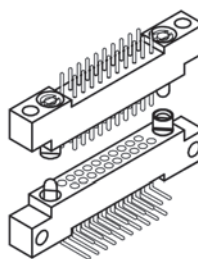


Sizes: 2 Row
10 thru 100
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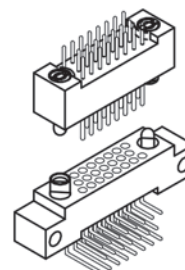


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11 thru 206
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RIGHT-ANGLE RECEPTACLE MATING TO STRAIGHT PLUG

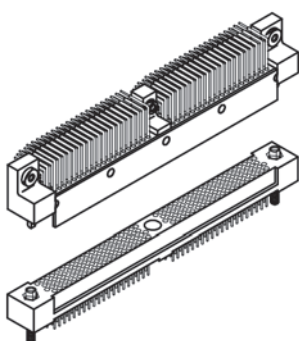


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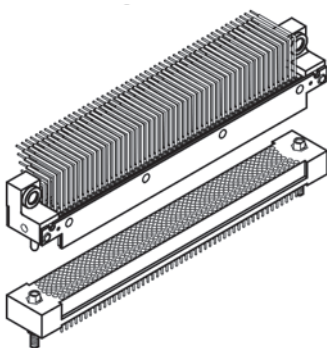


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11 thru 206
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RIGHT-ANGLE PLUG MATING TO STRAIGHT RECEPTACLE

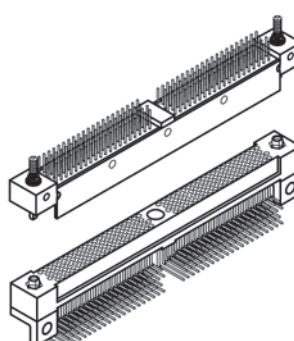


Sizes: 4 Row
86 thru 404
Page: R-47

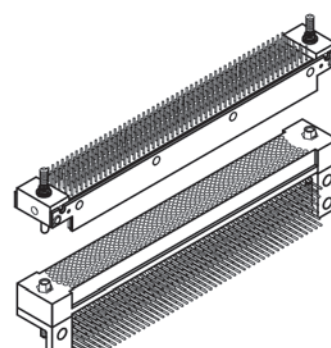


Sizes: 6 Row
162 thru 402
Page: R-63
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RIGHT-ANGLE RECEPTACLE MATING TO STRAIGHT PLUG

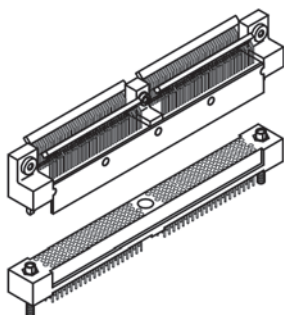


Sizes: 4 Row
86 thru 404
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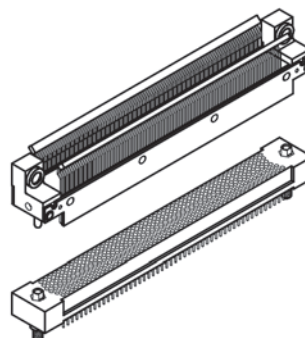


Sizes: 6 Row
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SURFACE-MOUNT PLUG MATING TO STRAIGHT RECEPTACLE



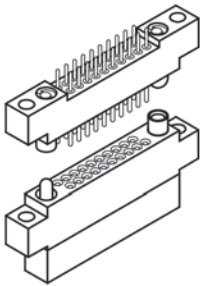
Sizes: 4 Row
86 thru 404
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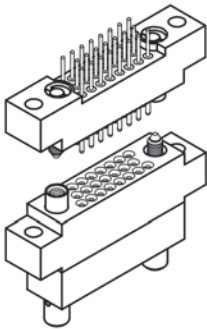
Sizes: 6 Row
162 thru 402
Page: R-67
Sizes: 448 & 604
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CABLE- OR BOARD MATING-TO-CRIMP REMOVABLE

STRAIGHT PLUG MATING TO CRIMP REMOVABLE RECEPTACLE

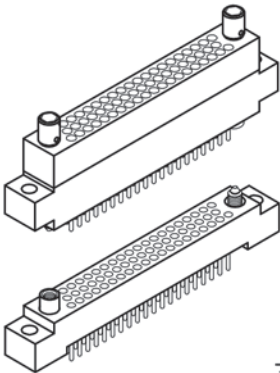


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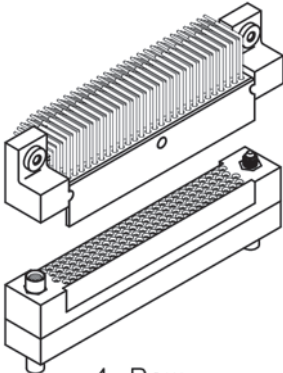
Sizes: $\frac{3 \text{ Row}}{11 \text{ thru } 80}$
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CRIMP-REMOVABLE PLUG MATING TO STRAIGHT RECEPTACLE



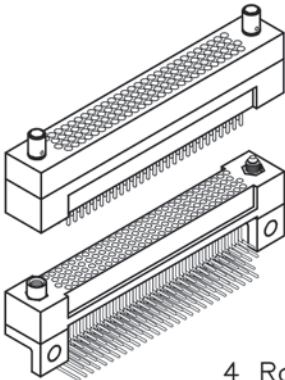
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STRAIGHT PLUG MATING TO CRIMP REMOVABLE RECEPTACLE



Sizes: $\frac{4 \text{ Row}}{86 \text{ \& } 110}$
Page: R-53

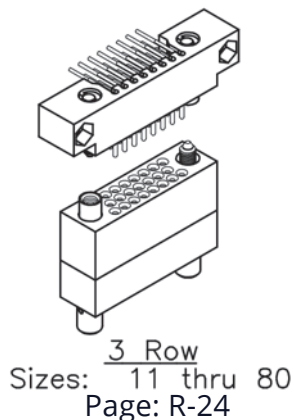
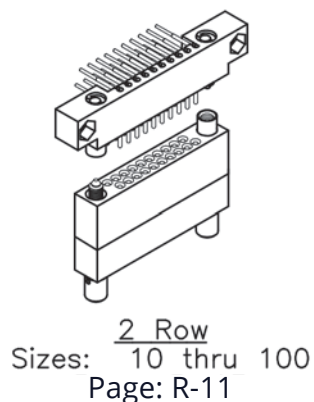
CRIMP-REMOVABLE PLUG MATING TO RIGHT-ANGLE RECEPTACLE



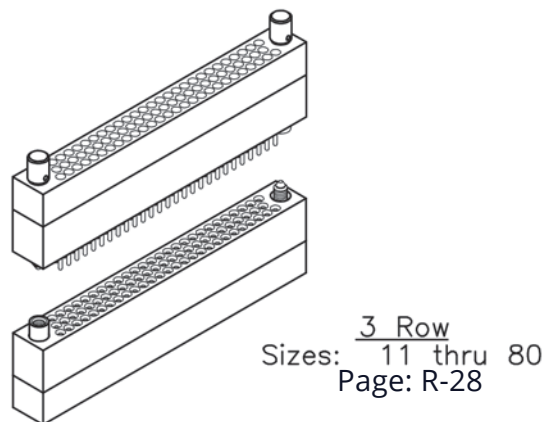
Sizes: $\frac{4 \text{ Row}}{86 \text{ \& } 110}$
Page: R-55

CABLE OR BOARD MATING TO CRIMP REMOVABLE

RIGHT-ANGLE PLUG MATING TO CRIMP-REMOVABLE RECEPTACLE

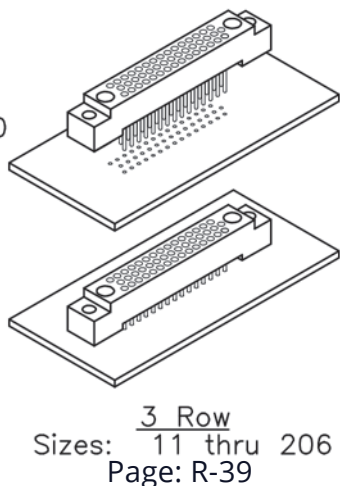
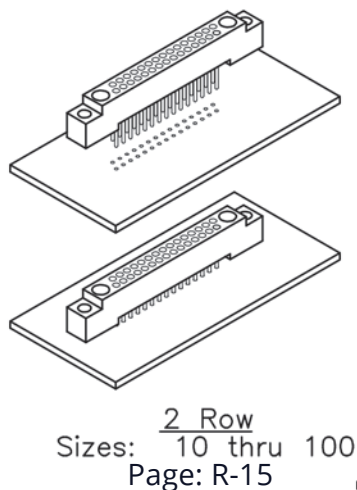


CRIMP-REMOVABLE PLUG MATING TO CRIMP-REMovable RECEPTACLE

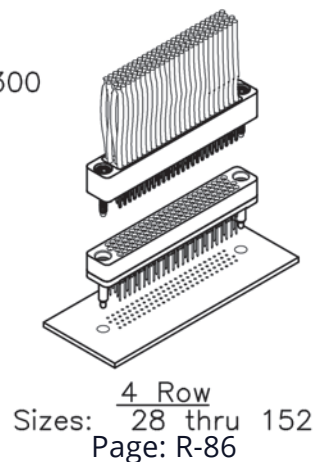
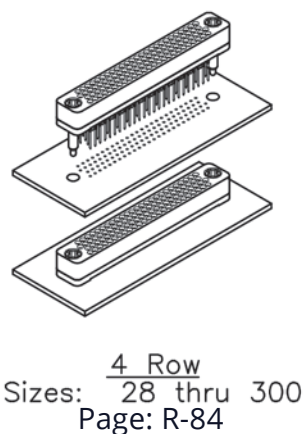


PC BOARD STACKABLE

PLATED THROUGH-HOLE STACKABLE OR CONNECTOR SAVER



COMPLAINT PIN (PRESS-FIT) STACKABLE



SPECIFICATIONS – MATERIALS AND FINISHES*

PIN CONTACTS:	BeCu, per ASTM-B196, ASTM B 197/B 197M-, or brass alloy per ASTM B 16/B 16M or ASTM-B134
SOCKET CONTACTS:	BeCu per ASTM-B194 and/or ASTM-B 196, ASTM B 197/B 197M-, or brass per ASTM B 16/B 16M or ASTM-B134
CONTACT FINISHES:	Gold plate per ASTM B 488-, SAE AMS 2422, or localized finish per MIL-DTL-55302 and associated slash sheet
SOLDER:	Sn/Pb alloy - 63% tin, 37% lead composition [x] SAC305 - 96.5% tin, 3.0% silver, 0.5% copper composition.
MOLDED INSULATORS:	Glass filled polyphenylene sulfide per MIL-M-24519, type GST-40F
JACKSCREWS:	Stainless steel per ASTM A 582/A582M- Passivated per ASTM-A967, SAE AMS-QQ-P-35
JACKSOCKETS:	Stainless steel per ASTM A 582/A582M- Passivated per ASTM-A967, SAE AMS-QQ-P-35
JACKSCREW KNOBS:	Stainless steel per ASTM A 582/A582M- Passivated per ASTM-A967, SAE AMS-QQ-P-35
GUIDE PINS, GUIDE SOCKETS:	Stainless steel per ASTM A 582/A582M- Passivated per ASTM-A967, SAE AMS-QQ-P-35
GUIDE SOCKETS, POLARIZED "D" TYPE:	BeCu per ASTM-B196, ASTM B 197/B 197M-, nickel plated per SAE AMS-QQ-N-290
CONNECTOR MARKINGS:	Contact numbers are stamped on the side of the connector. Numbers are stamped on the low-numbered side only on 2-row and 3-row right-angle connectors.
TOLERANCES:** (Unless otherwise specified)	Angles: $\pm 5^\circ$ Decimals: $\pm 0.010''$ Fractions: $\pm 1/64''$

NOTES

Molex can manufacture special configurations for your exact specifications.

* = Reference the above listed specifications or an equivalent industry standard when applicable

[x] Symbolizes options that are not RoHS compliant.

PERFORMANCE REFERENCE MIL-C-55302

CONTACT RATING:	3 amperes (2 amperes for 0.016" diameter)
SOLDERABILITY:	Terminals (<i>except wire wrap, crimp and stackables</i>) tested in accordance with MIL-STD-202, method 208
WIRE SIZE:	Stranded #26 AWG
OPERATING TEMPERATURE:	-65° to +125° C or -85° to +257° F

CATEGORY	REQUIREMENTS	TEST METHOD PER: SAE AS 13441
TEST VOLTAGE	750V, RMS, 60 Hz at sea level 250V, RMS, 60 Hz at 70,000 feet	#3001
INSULATION RESISTANCE	5,000 megohms minimum at 500 VDC	#3003
DURABILITY	500 connector mating cycles	
VIBRATION	Mated connectors, test condition III	#2005
SHOCK	Mated connectors, test condition G	#2004
SALT SPRAY	Mated connectors, tested condition B	#1001
HUMIDITY	Test type II, (except steps 7a and 7b not required)	#1002
TEMPERATURE CYCLING	Mated connectors, test condition A	#1003
CONTACT RESISTANCE	0.015 Ohms max (interface measurement) at 3 amperes	#3004
CONTACT MATING FORCE	2.50 oz. x number of contacts average	
OUTGASSING	The entire connector assembly shall have maximum total mass loss (TML) of 1.0 percent of the original specimen mass and shall have a maximum volatile condensable material (VCM) content of 0.1 percent of the original specimen mass.	
SIZES 50 AND LARGER	Upon engagement, center area of mating faces may remain open 0.010" to 0.025" due to slight flexing of molding. Vibration or shock should provide complete closure.	
GUIDES AND JACKS	If location of pin or socket contacts is reversed, location of male and female guides or jacks is also reversed; except when using D shaped polarized guides. When polarized positions are changed, apply Loctite® 242-12 or equivalent to threads.	

PART NUMBER DESCRIPTION

Each part number consists of at least five elements: series, body description, size (number of contacts), type of contacts, and type of hardware. A sixth element is added whenever special modifications or options are available.

Each catalog page shows the choices available for each of these elements. By selecting one option from each category on the page, you can build a set of connectors to meet your requirements.

Each element is identified by a combination of letters and/or numbers in fixed field lengths, and separated by a hyphen(-). Each space must be filled in to complete the number. For example: an order for size 9 will be 009; an order for size 51 will be 051 and so on.

SERIES:

This will always be a two letter designator and will identify the connector series. All 0.075" connectors begin with the letter R. The second letter designates the various styles of 0.075" connectors.

BODY:

Each digit of the Body Designator will normally identify (1) the number of rows, (2) the style of body, and (3) the body materials. The three digit number to identify the body consists of one digit from each group.

SIZE:

The size is determined by the number of contacts in the connector, and is an integral part of the part number. Order only sizes shown on the catalog page unless otherwise noted. If you are unable to locate the size you are looking for, contact Molex for further assistance.

CONTACTS:

Each page also identifies all contact options for a given connector. The first two digits designate the type of contacts and terminations; the third digit designates the plating option.

HARDWARE:

The hardware designator is four digits; two for style of hardware and two for polarization or wiring instruction. Follow the choices for each connector.

SPECIAL INSTRUCTIONS (OPTIONS):

Special instructions are referenced by a three-digit number added to the end of the part number. The last three digits are included only when applicable. Molex will provide individual code numbers as needed.

NOTES:

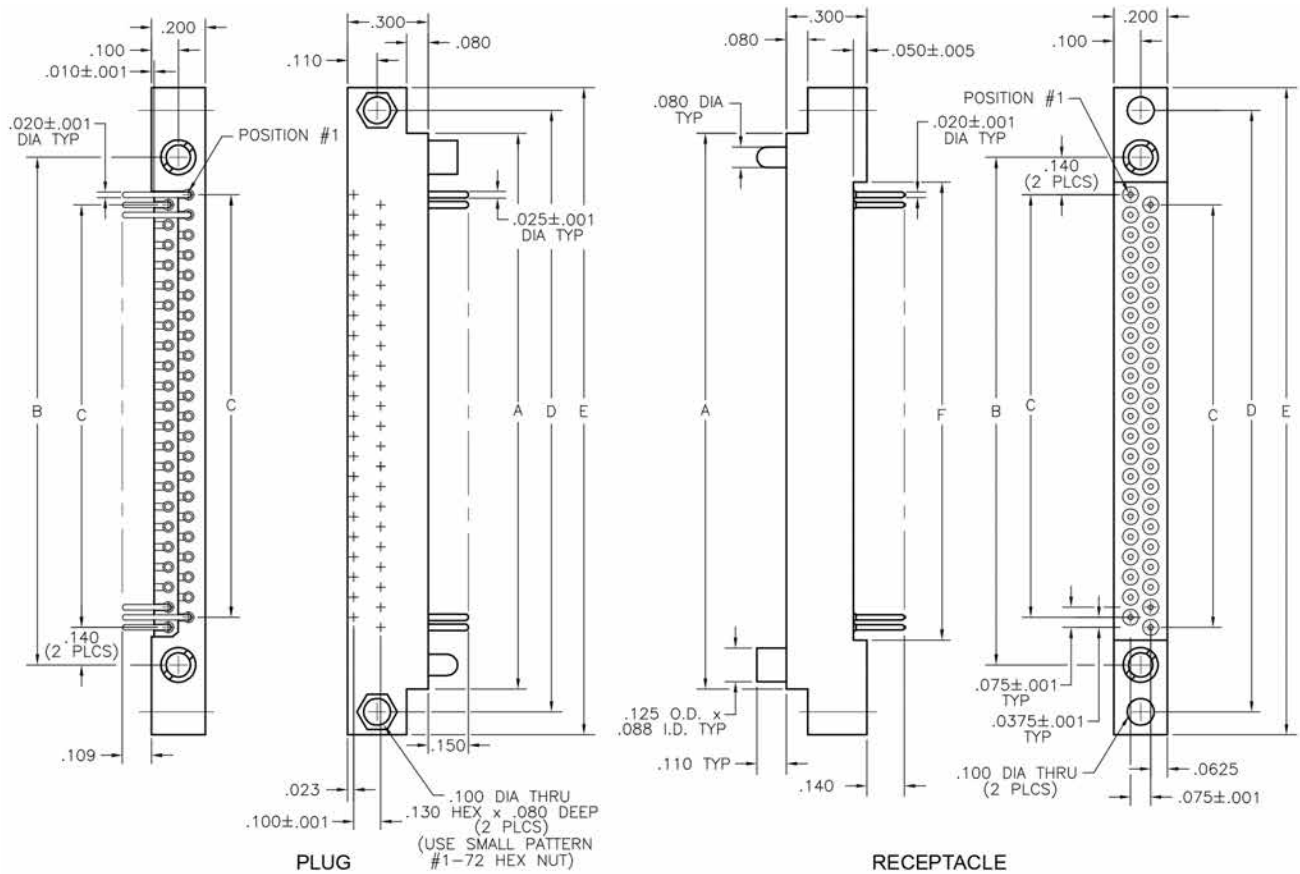
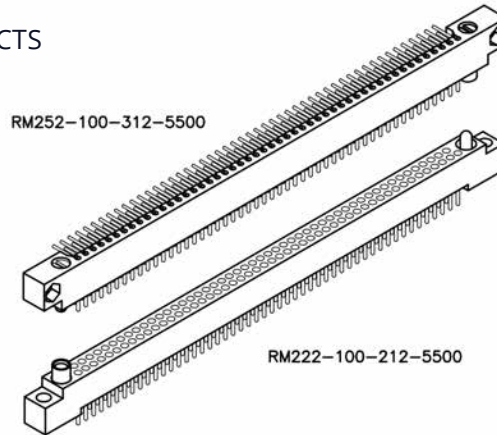
Each page is as comprehensive as possible. However, if you do not find a particular connector size or option, please contact Molex for further assistance.

[x] Symbolizes options that are not RoHS compliant.

TWO ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RM2

0.075" | 10 THROUGH 100 CONTACTS



DIMENSIONS						
SIZE	A	B	C	D	E	F
10	.797	.617	.300	.967	1.137	.420
20	1.172	.992	.675	1.342	1.512	.795
30	1.547	1.367	1.050	1.717	1.887	1.170
40	1.922	1.742	1.425	2.092	2.262	1.545
50	2.297	2.117	1.800	2.467	2.637	1.920
60	2.672	2.492	2.175	2.842	3.012	2.295
70	3.047	2.867	2.550	3.217	3.387	2.670
80	3.422	3.242	2.925	3.592	3.762	3.045
90	3.797	3.617	3.300	3.967	4.137	3.420
100	4.172	3.992	3.675	4.342	4.512	3.795

LEAD CONFIGURATION OPTIONS

PLUG: RM252-100-312-5500
 RECEPTACLE: RM222-100-212-5500
 XXXXX-XXX-XXX-XXXXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
2 2-Row	2 2-Row

BODY STYLE:	BODY STYLE:
5 Plug, right angle, with mounting ears	2 Receptacle, straight with mounting ears
7 Plug, right angle, without mounting ears	4 Receptacle, straight without mounting ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)

SIZE	
010, 020, 030, 040, 050, 060, 070, 080, 090, 100	010, 020, 030, 040, 050, 060, 070, 080, 090, 100

CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:

31 Pin, right angle, dip solder, .109" x .020" dia	20 Socket, straight, dip solder, .109" x .020 dia
32 Pin, right angle, dip solder, .140" x .020" dia	21 Socket, straight, dip solder, .140" x .020 dia
33 Pin, right angle, dip solder, .172" x .020" dia	22 Socket, straight, dip solder, .172" x .020 dia
34 Pin, right angle, dip solder, .109" x .016" dia	23 Socket, straight, dip solder, .250" x .020 dia
35 Pin, right angle, dip solder, .140" x .016" dia	24 Socket, straight, solder cup
36 Pin, right angle, dip solder, .172" x .016" dia	25 Socket, straight, flex circuit, .093" x .017 dia
37 Pin, right angle, dip solder, .250" x .020" dia	26 Socket, straight, wire wrap®, .500" x .018 square
	27 Socket, straight, wire wrap®, .375" x .018 square
	28 Socket, straight, wire wrap®, .625" x .018 square
	29 Socket, connector saver, .150" x .025" dia
	50 Socket, straight, dip solder, .140" x .016" dia
	51 Socket, straight, dip solder, .172" x .016" dia
	53 Socket, straight, stackable, .212" x .025" dia
	54 Socket, straight, stackable, .244" x .025" dia
	55 Socket, straight, stackable, .275" x .025" dia
	64 Socket, straight, press fit, .203" (Board .093"-.125" thk)
	65 Socket, straight, press fit, .323" (Board .156"-.200" thk)
	66 Socket, straight, press fit, .403" (Board .250"+ thk)

PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	1 Gold plated termination
2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>
3 Pre-tinned termination, SAC305 alloy	3 Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE	
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STYLE OF HARDWARE: (See R-41 & R-42 for all options)	STYLE OF HARDWARE: (See R-41 & R-42 for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jacksockets	20 Two fixed jacksockets
59 Hex turning jackset, .200"	59 Hex turning jackset, .200"
60 Hex turning jackset, reversed, .200"	60 Hex turning jackset, reversed, .200"
61 Two hex turning jackscrews, .200"	61 Two hex turning jackscrews, .200"
62 Two hex turning jacksockets, .200"	62 Two hex turning jacksockets, .200"
64 Turning jackset, .490"	64 Turning jackset, .490"
65 Turning jackset, reversed, .490"	65 Turning jackset, reversed, .490"
66 Two turning jackscrews, .490"	66 Two turning jackscrews, .490"
67 Two turning jacksockets, .490"	67 Two turning jacksockets, .490"

POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

OPTIONS	
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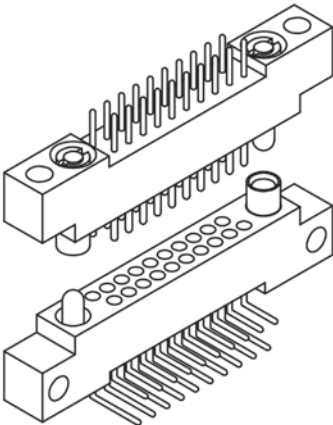
BN Bond #1-72 small pattern hex nuts into mounting ears

☒ = Option not RoHS compliant

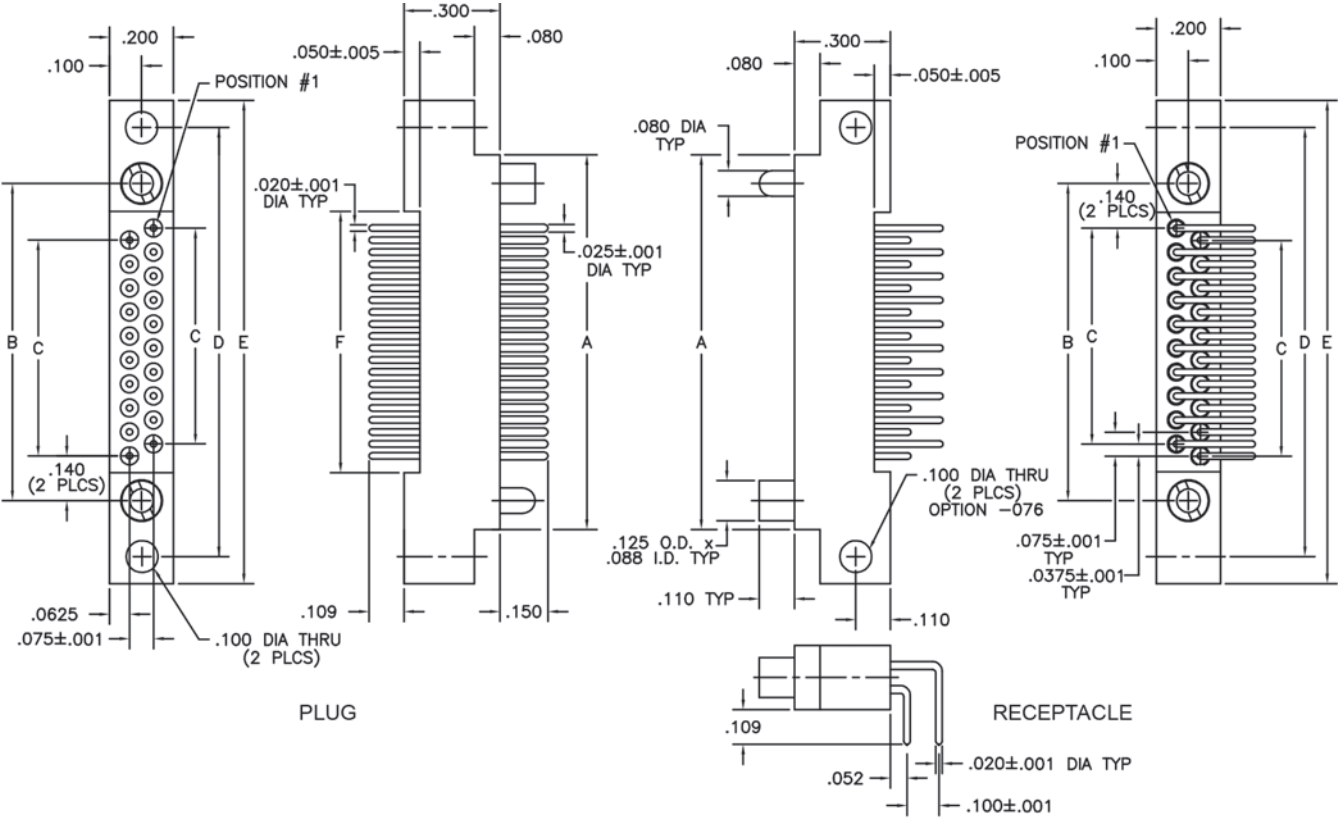
TWO ROW – MOTHERBOARD- OR CHASSIS-TO-DAUGHTERBOARD

RM2
0.075" | 10 THROUGH 100 CONTACTS

RM212-020-102-5500



RM262-020-442-5500-076



DIMENSIONS						
SIZE	A	B	C	D	E	F
10	.797	.617	.300	.967	1.137	.442
20	1.172	.992	.675	1.342	1.512	.817
30	1.547	1.367	1.050	1.717	1.887	1.192
40	1.922	1.742	1.425	2.092	2.262	1.567
50	2.297	2.117	1.800	2.467	2.637	1.942
60	2.672	2.492	2.175	2.842	3.012	2.317
70	3.047	2.867	2.550	3.217	3.387	2.692
80	3.422	3.242	2.925	3.592	3.762	3.067
90	3.797	3.617	3.300	3.967	4.137	3.442
100	4.172	3.992	3.675	4.342	4.512	3.817

LEAD CONFIGURATION OPTIONS

PLUG: RM212-020-102-5500
 RECEPTACLE: RM262-020-442-5500-076
 XXXXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
------	--

2 2-Row	2 2-Row
BODY STYLE:	BODY STYLE:
1 Plug, straight, with mounting ears	6 Receptacle, right angle, with mounting ears
3 Plug, straight, without mounting ears	8 Receptacle, right angle, without mounting ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)

SIZE	
------	--

010, 020, 030, 040, 050, 060, 070, 080, 090, 100 | 010, 020, 030, 040, 050, 060, 070, 080, 090, 100

CONTACTS	
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TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
10 Pin, straight, dip solder, .109" x .020" dia	44 Socket, right angle, dip solder, .109" x .020" dia
11 Pin, straight, solder cup	45 Socket, right angle, dip solder, .140" x .020" dia
12 Pin, straight, dip solder, .140" x .020" dia	46 Socket, right angle, dip solder, .172" x .020" dia
13 Pin, straight, dip solder, .172" x .020" dia	47 Socket, right angle, dip solder, .250" x .020" dia
14 Pin, straight, dip solder, .250" x .020" dia	
15 Pin, straight, flex, .093" x .017" dia	

PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	1 Gold plated termination
2 Pre-tinned termination, SnPb alloy (dip solder options only) ☒	2 Pre-tinned termination, SnPb alloy ☒
3 Pre-tinned termination, SAC305 alloy (dip solder options only)	3 Pre-tinned termination, SAC305 alloy

HARDWARE	
----------	--

STYLE OF HARDWARE: (See R-41 & R-42 for all options)	STYLE OF HARDWARE: (See R-41 & R-42 for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jacksockets	20 Two fixed jacksockets
59 Hex turning jackset, .200"	59 Hex turning jackset, .200"
60 Hex turning jackset, reversed, .200"	60 Hex turning jackset, reversed, .200"
61 Two hex turning jackscrews, .200"	61 Two hex turning jackscrews, .200"
62 Two hex turning jacksockets, .200"	62 Two hex turning jacksockets, .200"
64 Turning jackset, .490"	64 Turning jackset, .490"
65 Turning jackset, reversed, .490"	65 Turning jackset, reversed, .490"
66 Two turning jackscrews, .490"	66 Two turning jackscrews, .490"
67 Two turning jacksockets, .490"	67 Two turning jacksockets, .490"

POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

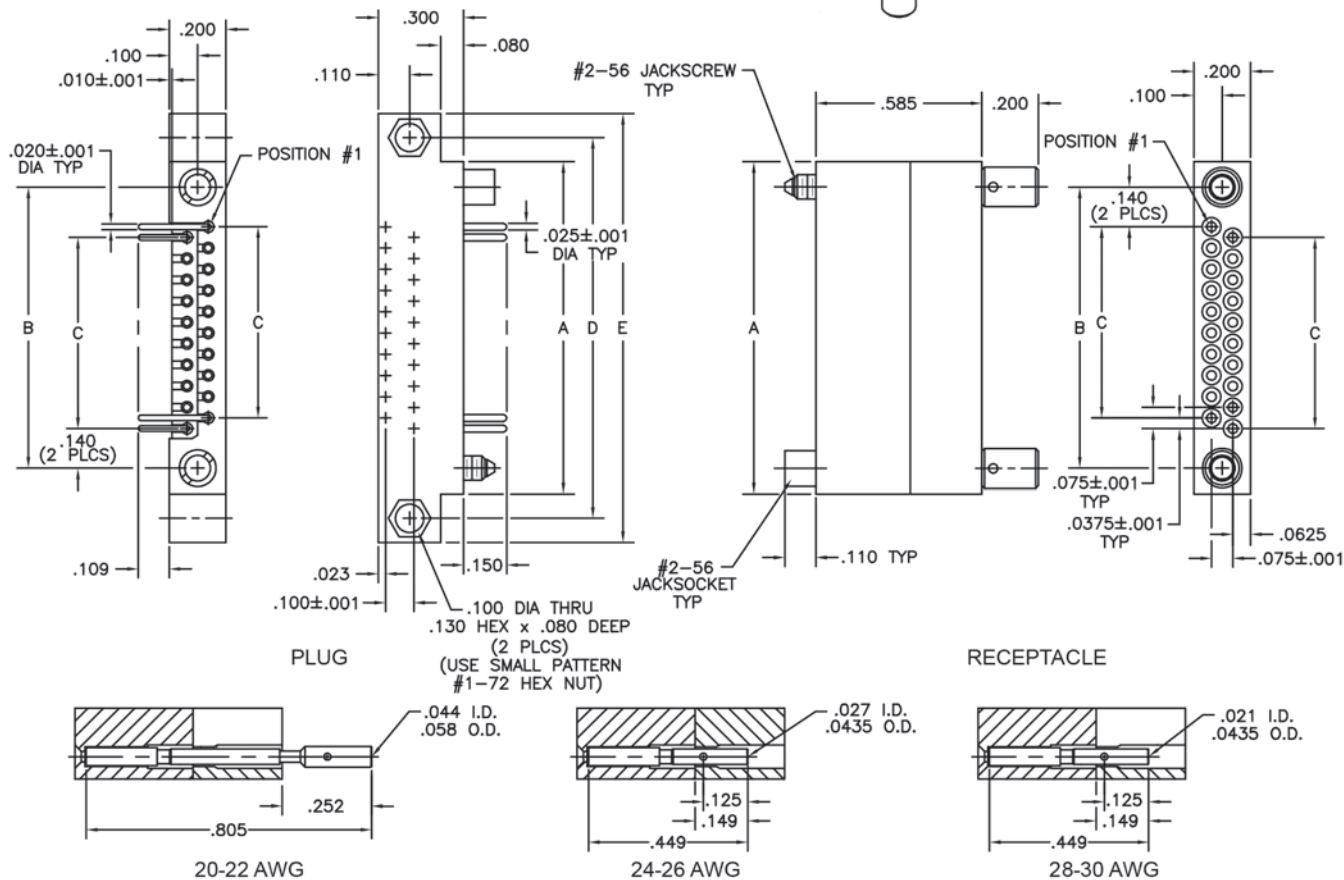
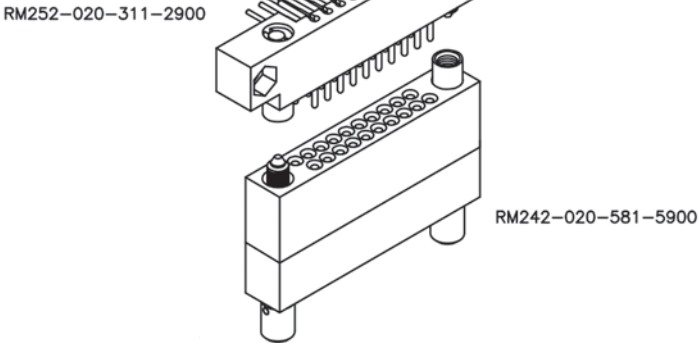
OPTIONS	
---------	--

| 076 PWB mounting holes, .100" dia (cross drilled)

☒ = Option not RoHS compliant

TWO ROW – BOARD-TO-CRIMP REMOVABLE

RM2
0.075" | 10 THROUGH 100 CONTACTS



CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM200-000-571-0000
24-26 AWG	RM200-000-581-0000
28-30 AWG	RM200-000-591-0000

DIMENSIONS					
SIZE	A	B	C	D	E
10	.797	.617	.300	.967	1.137
20	1.172	.992	.675	1.342	1.512
30	1.547	1.367	1.050	1.717	1.887
40	1.922	1.742	1.425	2.092	2.262
50	2.297	2.117	1.800	2.467	2.637
60	2.672	2.492	2.175	2.842	3.012
70	3.047	2.867	2.550	3.217	3.387
80	3.422	3.242	2.925	3.592	3.762
90	3.797	3.617	3.300	3.967	4.137
100	4.172	3.992	3.675	4.342	4.512

LEAD CONFIGURATION OPTIONS

PLUG: RM252-020-311-2900
 RECEPTACLE: RM242-020-581-5900
 XXXXX-XXX-XXX-XXXXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
2 2-Row	2 2-Row
BODY STYLE:	BODY STYLE:
5 Plug, right angle, with mounting ears	2 Receptacle, straight, with mounting ears
7 Plug, right angle, without mounting ears	4 Receptacle, straight, without mounting ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)

SIZE	
010, 020, 030, 040, 050, 060, 070, 080, 090, 100	010, 020, 030, 040, 050, 060, 070, 080, 090, 100

CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
31 Pin, right angle, dip solder, .109" x .020" dia	00 Contacts not supplied
32 Pin, right angle, dip solder, .140" x .020" dia	57 Socket, straight, crimp removable (20-22 AWG)*
33 Pin, right angle, dip solder, .172" x .020" dia	58 Socket, straight, crimp removable (24-26 AWG)*
34 Pin, right angle, dip solder, .109" x .016" dia	59 Socket, straight, crimp removable (28-30 AWG)*
35 Pin, right angle, dip solder, .140" x .016" dia	
36 Pin, right angle, dip solder, .172" x .016" dia	
37 Pin, right angle, dip solder, .250" x .020" dia	
PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	0 No plating (use with Contact Option "00" only)
2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	1 Gold plated termination
3 Pre-tinned termination, SAC305 alloy	

HARDWARE	
STYLE OF HARDWARE: (See R-41 & R-42 for all options)	STYLE OF HARDWARE: (See R-41 & R-42 for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jackscrews	20 Two fixed jackscrews
59 Hex turning jackset, .200" knob	59 Hex turning jackset, .200" knob
60 Hex turning jackset, reversed, .200" knob	60 Hex turning jackset, reversed, .200" knob
61 Two hex turning jackscrews, .200" knob	61 Two hex turning jackscrews, .200" knob
62 Two hex turning jackscrews, .200" knob	62 Two hex turning jackscrews, .200" knob
64 Turning jackset, .490" knob	64 Turning jackset, .490" knob
65 Turning jackset, reversed, .490" knob	65 Turning jackset, reversed, .490" knob
66 Two turning jackscrews, .490" knob	66 Two turning jackscrews, .490" knob
67 Two turning jackscrews, .490" knob	67 Two turning jackscrews, .490" knob
POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

OPTIONS	
BN Bond #1-72, sm. pattern hex nuts into mtg. ears	

* Full compliment of crimp removable sockets packaged with connectors

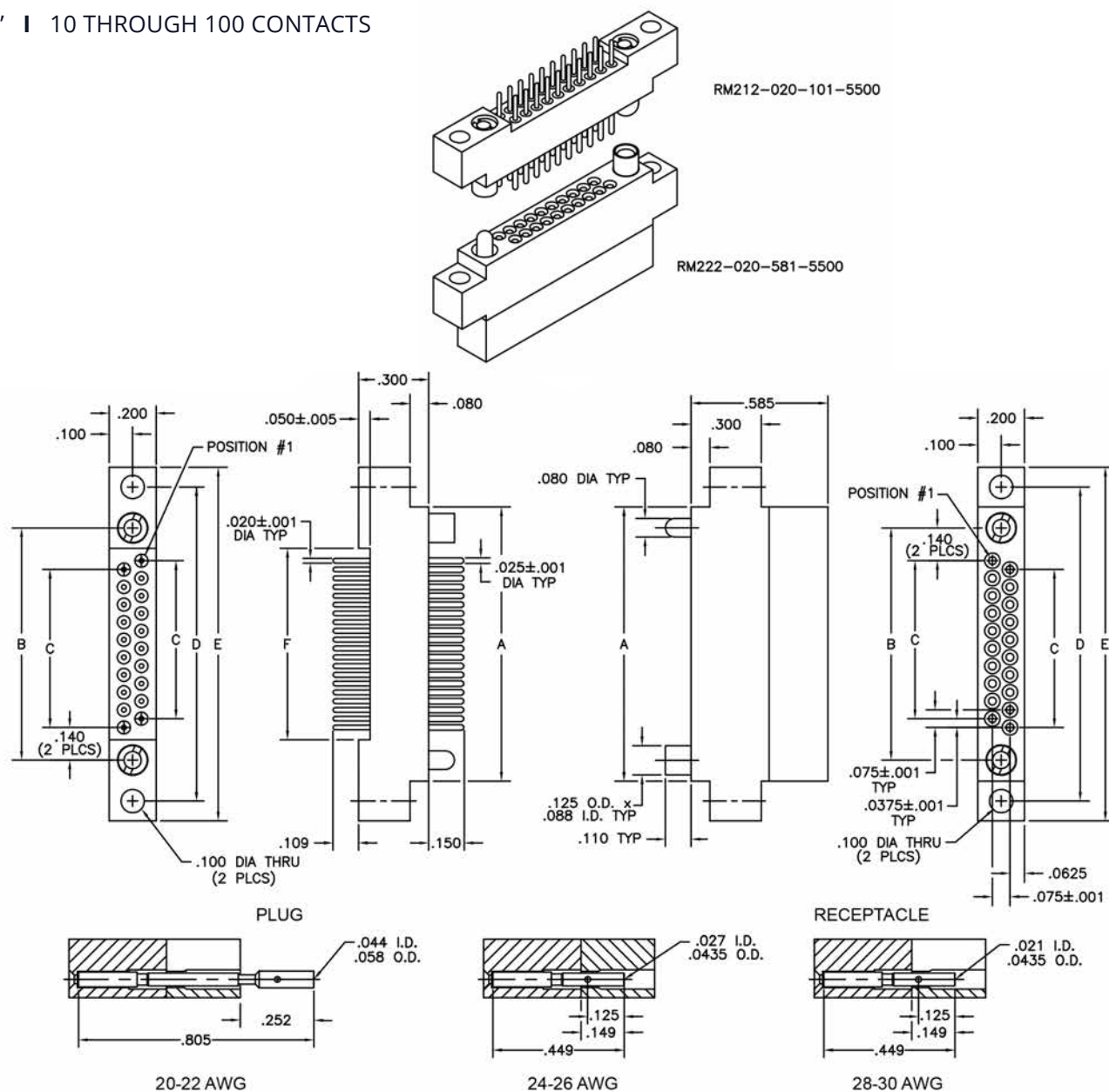
1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG); CDG4603 (20-22 AWG)
3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
4. Crimp contact part number on previous page.

☒ = Option not RoHS compliant

TWO ROW – CABLE- OR BOARD-TO-CRIMP REMOVABLE

RM2

0.075" | 10 THROUGH 100 CONTACTS



NOTE:
When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM200-000-571-0000
24-26 AWG	RM200-000-581-0000
28-30 AWG	RM200-000-591-0000

DIMENSIONS						
SIZE	A	B	C	D	E	F
10	.797	.617	.300	.967	1.137	.442
20	1.172	.992	.675	1.342	1.512	.817
30	1.547	1.367	1.050	1.717	1.887	1.192
40	1.922	1.742	1.425	2.092	2.262	1.567
50	2.297	2.117	1.800	2.467	2.637	1.942
60	2.672	2.492	2.175	2.842	3.012	2.317
70	3.047	2.867	2.550	3.217	3.387	2.692
80	3.422	3.242	2.925	3.592	3.762	3.067
90	3.797	3.617	3.300	3.967	4.137	3.442
100	4.172	3.992	3.675	4.342	4.512	3.817

LEAD CONFIGURATION OPTIONS

PLUG: RM212-020-101-5500
 RECEPTACLE: RM222-020-581-5500
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
2 2-Row	2 2-Row
BODY STYLE:	BODY STYLE:
1 Plug, straight, with mounting ears	2 Receptacle, straight, with mounting ears
3 Plug, straight, without mounting ears	4 Receptacle, straight, without mounting ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)

SIZE	
010, 020, 030, 040, 050, 060, 070, 080, 090, 100	010, 020, 030, 040, 050, 060, 070, 080, 090, 100

CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
10 Pin, straight, dip solder, .109" x .020" dia	00 Contacts not supplied
11 Pin, straight, solder cup	57 Socket, straight, crimp removable (20-22 AWG)*
12 Pin, straight, dip solder, .140" x .020" dia	58 Socket, straight, crimp removable (24-26 AWG)*
13 Pin, straight, dip solder, .172" x .020" dia	59 Socket, straight, crimp removable (28-30 AWG)*
14 Pin, straight, dip solder, .250" x .020" dia	
15 Pin, straight, flex, .093" x .017" dia	
PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	0 No plating (use with Contact Option "00" only)
2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	1 Gold plated termination
3 Pre-tinned termination, SAC305 alloy (dip solder options only)	

HARDWARE	
STYLE OF HARDWARE: (See R-41 & R-42 for all options)	STYLE OF HARDWARE: (See R-41 & R-42 for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jacksockets	20 Two fixed jacksockets
59 Hex turning jackset, .200"	59 Hex turning jackset, .200"
60 Hex turning jackset, reversed, .200"	60 Hex turning jackset, reversed, .200"
61 Two hex turning jackscrews, .200"	61 Two hex turning jackscrews, .200"
62 Two hex turning jacksockets, .200"	62 Two hex turning jacksockets, .200"
64 Turning jackset, .490"	64 Turning jackset, .490"
65 Turning jackset, reversed, .490"	65 Turning jackset, reversed, .490"
66 Two turning jackscrews, .490"	66 Two turning jackscrews, .490"
67 Two turning jacksockets, .490"	67 Two turning jacksockets, .490"
POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

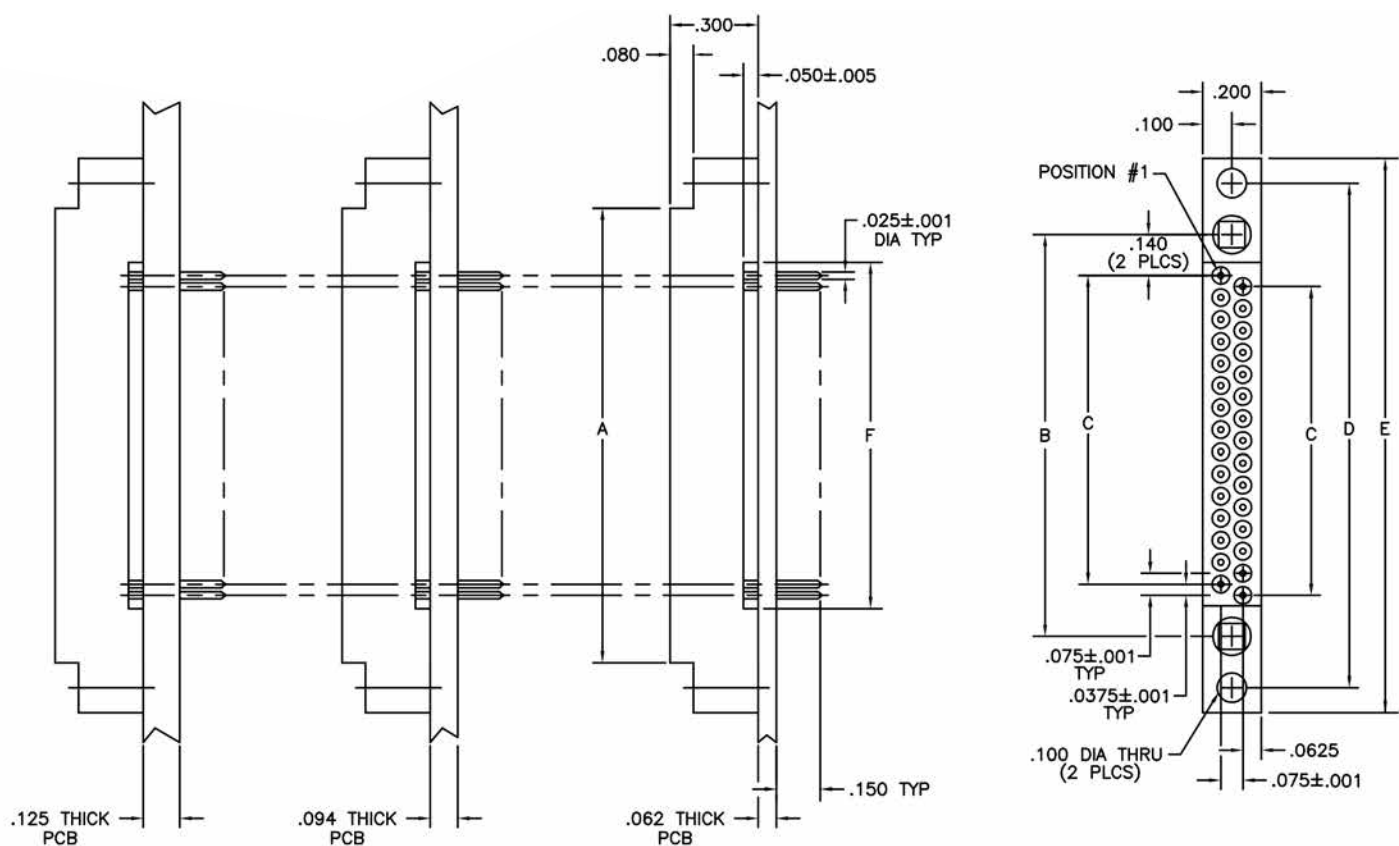
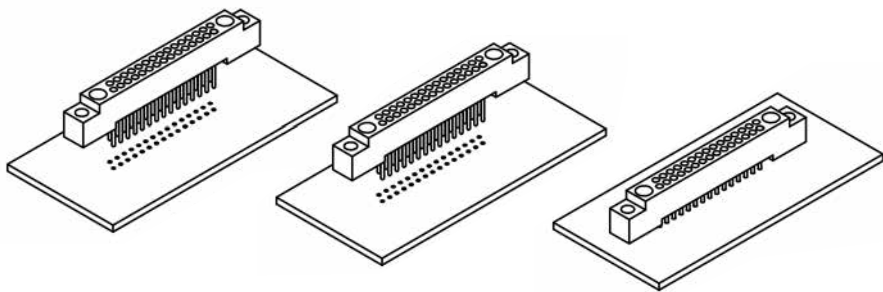
* Full compliment of crimp removable sockets packaged with connectors

1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG)
CDG4603 (20-22 AWG)
3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
4. Crimp contact part number on previous page.

☒ = Option not RoHS compliant

TWO ROW – PC BOARD STACKABLE OR CONNECTOR SAVER

RM2
0.075" | 10 THROUGH 100 CONTACTS



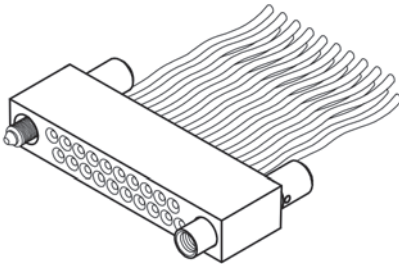
NOTE:
Stacking connectors cannot have mating hardware.
(-0256 indicates no hardware)

PC BOARD THICKNESS	TERMINATION LENGTH	PART NUMBER EXAMPLES
.062	.212	RM222-030-531-0256
.094	.244	RM222-030-541-0256
.125	.275	RM222-030-551-0256
CONNECTOR SAVER	.150	RM222-030-291-0256

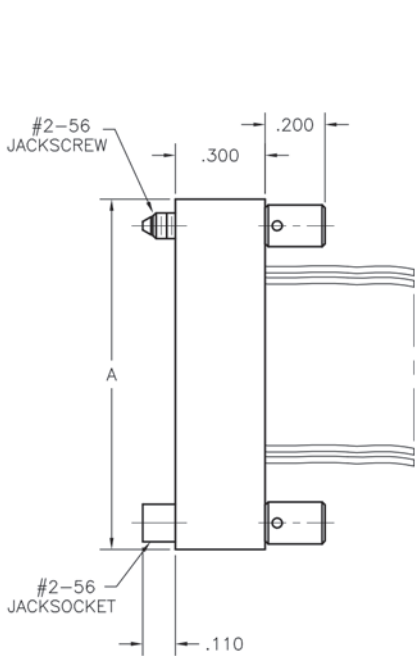
DIMENSIONS						
SIZE	A	B	C	D	E	F
10	.797	.617	.300	.967	1.137	.442
20	1.172	.992	.675	1.342	1.512	.817
30	1.547	1.367	1.050	1.717	1.887	1.192
40	1.922	1.742	1.425	2.092	2.262	1.567
50	2.297	2.117	1.800	2.467	2.637	1.942
60	2.672	2.492	2.175	2.842	3.012	2.317
70	3.047	2.867	2.550	3.217	3.387	2.692
80	3.422	3.242	2.925	3.592	3.762	3.067
90	3.797	3.617	3.300	3.967	4.137	3.442
100	4.172	3.992	3.675	4.342	4.512	3.817

TWO ROW – CRIMPED WIRE I/O RECEPTACLE

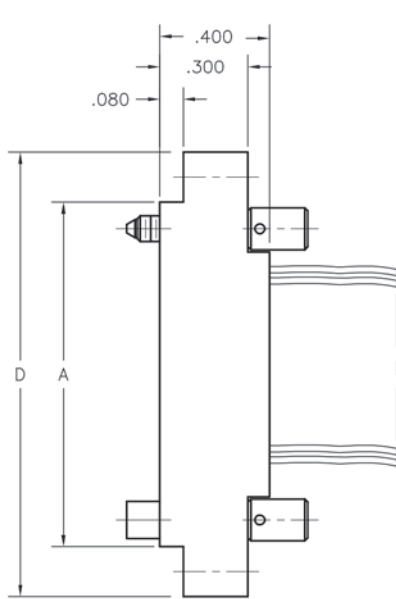
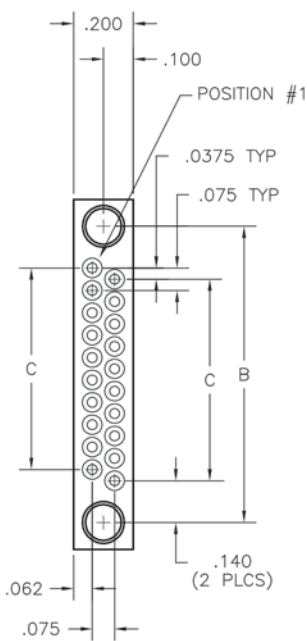
RA2
0.075" | 10 THROUGH 100 CONTACTS



RA2H2-020-2HC-5900



RECEPTACLE WITHOUT
MOUNTING EARS OR
POTTING WELL



RECEPTACLE WITH
MOUNTING EARS AND
POTTING WELL

DIMENSIONS				
SIZE	A	B	C	D
10	.797	.617	.300	1.137
20	1.172	.992	.675	1.512
30	1.547	1.367	1.050	1.887
40	1.922	1.742	1.425	2.262
50	2.297	2.117	1.800	2.637
60	2.672	2.492	2.175	3.012
70	3.047	2.867	2.550	3.387
80	3.422	3.242	2.925	3.762
90	3.797	3.617	3.300	4.137
100	4.172	3.992	3.675	4.512

RA2 RECEPTACLE CONNECTORS MATE WITH:		
MATE	DESCRIPTION	PAGE
RM212	2 ROW STRAIGHT PLUG WITH EARS	R-11
RM232	2 ROW STRAIGHT PLUG WITHOUT EARS	R-11
RM252	2 ROW RIGHT ANGLE PLUG WITH EARS	R-13
RM272	2 ROW RIGHT ANGLE PLUG WITHOUT EARS	R-13

REPLACEMENT CONTACTS:
RA000-001-200-0000
RA000-001-400-0000

SEE PAGE R-37 FOR CRIMP INSTRUCTIONS, CONTACT
INSERTION AND CONTACT REMOVAL TOOLS.

LEAD CONFIGURATION OPTIONS

RECEPTACLE: RA2H2-020-2HC-5900
XXXXX-XXX-XXX-XXXX

SERIES

RA .075" Screw Machine PC Connector

BODY

2 2-Row

BODY STYLE:
E Receptacle, straight, w/ potting well, w/ mounting ears
F Receptacle, straight, w/ potting well, w/out mounting ears
G Receptacle, straight, w/out potting well, w/ mounting ears
H Receptacle, straight, w/out potting well, w/out mounting ears

BODY MATERIAL:
2 Polyphenylene sulfide (PPS)

SIZE

010, 020, 030, 040, 050, 060, 070, 080, 090, 100

CONTACTS

TYPE CONTACTS/TERMINATIONS:
2 Socket, crimp, 28-30 awg. contacts
4 Socket, crimp, 22-26 awg. contacts

WIRING OPTIONS:
XX Crimped terminations, see wiring codes at right

HARDWARE

GUIDE HARDWARE
0256 None
5500 Guide set
5501-5568 Guide set, polarized (see page R-47)
5570 Guide set, polarized, same as 5501 without Loctite® (to be keyed by customer)
5700 Two guide pins
5800 Two guide sockets
JACKING HARDWARE
2900 Fixed jackset
3000 Fixed jackset, reversed
1900 Two fixed jackscrews
2000 Two fixed jackscrews
5900 Hex turning jackset, .200" knob
6000 Hex turning jackset, reversed, .200" knob
6100 Two hex turning jackscrews, .200" knob
6200 Two hex turning jackscrews, .200" knob
6400 Turning jackset, .490" knob
6500 Turning jackset, reversed, .490" knob
6600 Two turning jackscrews, .490" knob
6700 Two turning jackscrews, .490" knob

☒ = Option not RoHS compliant

If potting well is used with a pre-wired connector, it will be potted and not repairable.
If potting well is not used with a pre-wired connector, it will not be potted.
Contacts that are not potted in place can be removed and replaced only one time.
See page R-37 for crimp instructions, contact insertion and contact removal tools.

WIRE CODES			
TYPE and COLOR			LENGTH
Code	Size	Color	Code Length (+1"/-0")
Mil-W-16878/4			
A	22 awg	Ten repeating	A 6"
B	22 awg	White	B 12"
C	24 awg	Ten repeating	C 18"
D	24 awg	White	D 24"
E	26 awg	Ten repeating	E 30"
F	26 awg	White	F 36"
G	28 awg	Ten repeating	G 42"
H	28 awg	White	H 48"
J	30 awg	Ten repeating	J 54"
K	30 awg	White	K 60"
Mil-W-22759/33			
L	22 awg	Ten repeating	L 66"
M	22 awg	White	M 72"
N	24 awg	Ten repeating	N 84"
P	24 awg	White	P 96"
R	26 awg	Ten repeating	R 108"
S	26 awg	White	S 120"
T	28 awg	Ten repeating	
U	28 awg	White	
V	30 awg	Ten repeating	
W	30 awg	White	

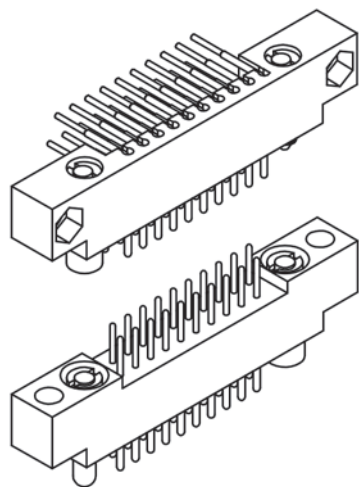
USING WIRE CODES:
RA2H2-020-2HC-5900
Type and Color  Length

Color sequence for
Ten repeating wire colors:
(Beginning in position #1)
Black
Brown
Red
Orange
Yellow
Green
Blue
Violet
Grey
White

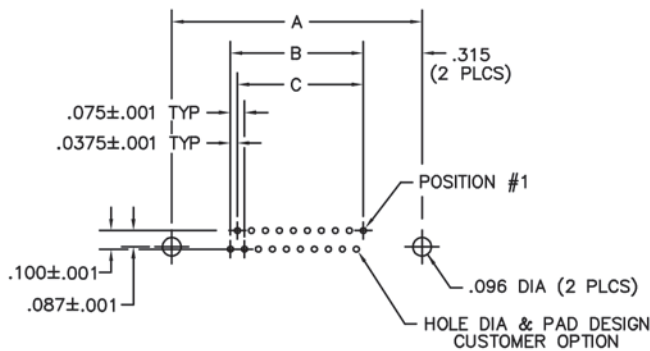
Repeat this sequence until
connector is fully loaded.

TWO ROW – RIGHT-ANGLE PTH PLUG/STRAIGHT PTH PLUG

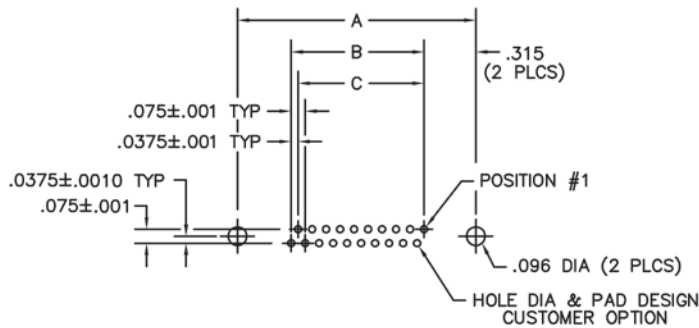
RM2 – RECOMMENDED BOARD LAYOUT 0.075" | 10 THROUGH 100 CONTACTS



DIMENSIONS			
SIZE	A	B	C
10	.967	.337	.300
20	1.342	.712	.675
30	1.717	1.087	1.050
40	2.092	1.462	1.425
50	2.467	1.837	1.800
60	2.842	2.212	2.175
70	3.217	2.587	2.550
80	3.592	2.962	2.925
90	3.967	3.337	3.300
100	4.342	3.712	3.675



RIGHT ANGLE PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE



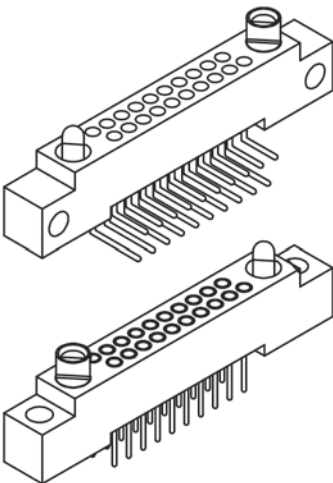
STRAIGHT PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID
10		60	
20		70	
30		80	
40		90	
50		100	

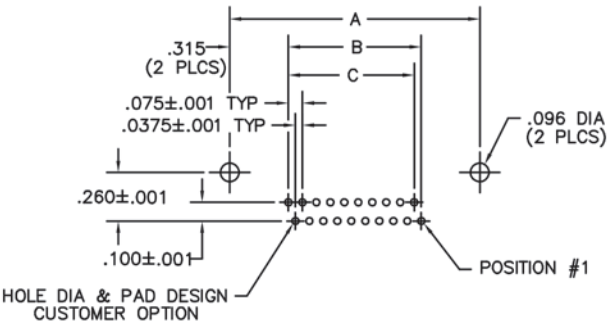
TWO ROW – STRAIGHT PTH RECEPTACLE

RM2 – RECOMMENDED BOARD LAYOUT

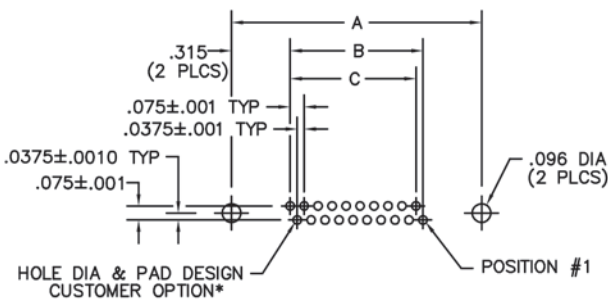
0.075" | 10 THROUGH 100 CONTACTS



DIMENSIONS			
SIZE	A	B	C
10	.967	.337	.300
20	1.342	.712	.675
30	1.717	1.087	1.050
40	2.092	1.462	1.425
50	2.467	1.837	1.800
60	2.842	2.212	2.175
70	3.217	2.587	2.550
80	3.592	2.962	2.925
90	3.967	3.337	3.300
100	4.342	3.712	3.675



RIGHT ANGLE PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE



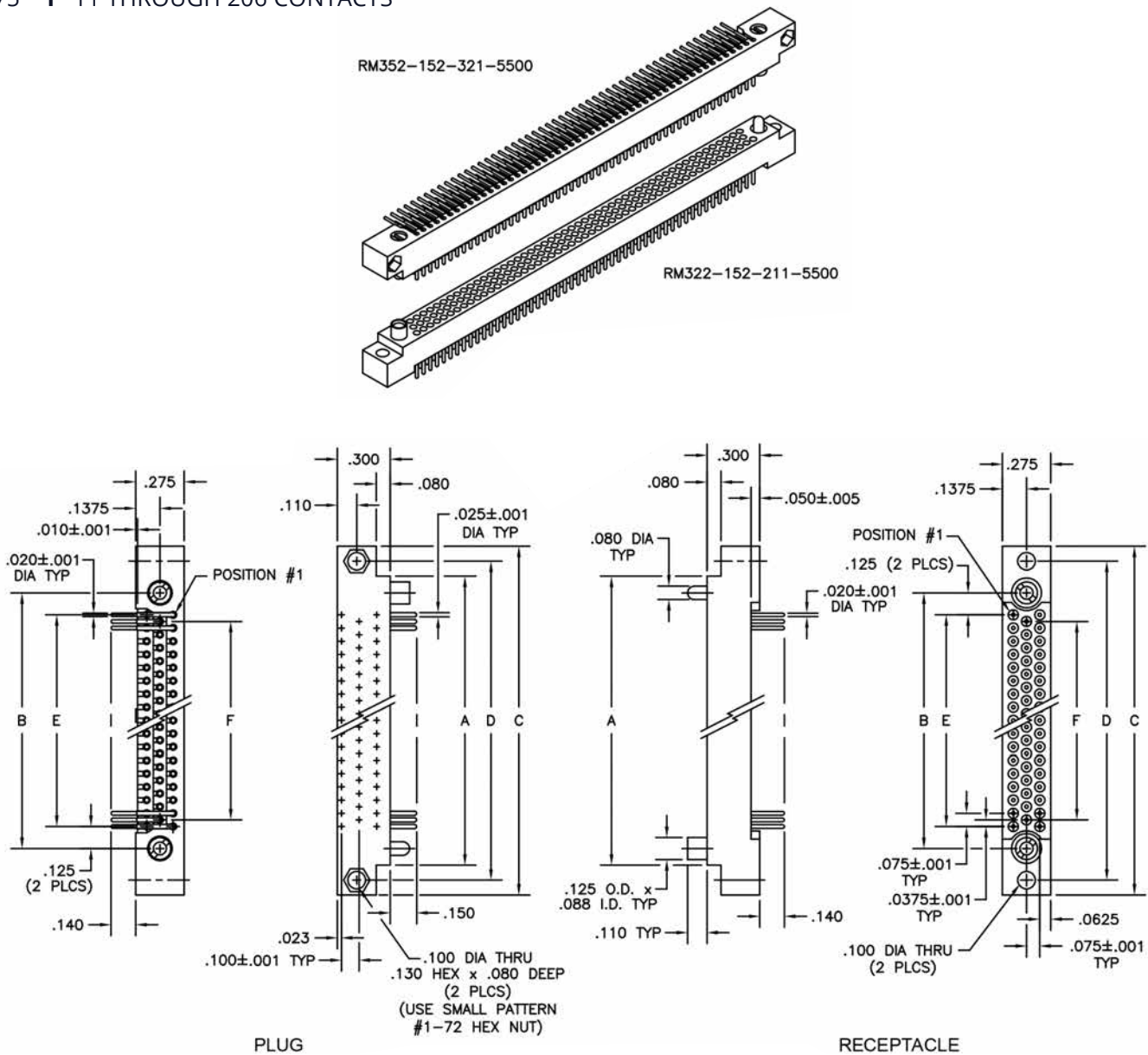
STRAIGHT PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE

*COMPLIANT TERMINATION PCB REQUIREMENTS:
Board Material: FR-4 w/ 1.0 oz. copper
Minimum nominal board thickness: .062"
Drilled hole: .0319"-.0339"
Copper plating thickness: .0010" minimum
Tin-lead plating thickness: .0006" maximum
Electroplated tin-lead composition: 63/37 (Sn/Pb)
Finished hole diameter: .028" ±.002"

SIZE	CONTACT ID	SIZE	CONTACT ID
10		60	
20		70	
30		80	
40		90	
50		100	

THREE ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RM3
0.075" | 11 THROUGH 206 CONTACTS



DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875

DIMENSIONS						
SIZE	A	B	C	D	E	F
92	2.690	2.500	3.030	2.860	2.250	2.175
104	2.990	2.800	3.330	3.160	2.550	2.475
122	3.440	3.250	3.780	3.610	3.000	2.925
140	3.890	3.700	4.230	4.060	3.450	3.375
152	4.190	4.000	4.530	4.360	3.750	3.675
182	4.940	4.750	5.280	5.110	4.500	4.425
206	5.540	5.350	5.880	5.710	5.100	5.025

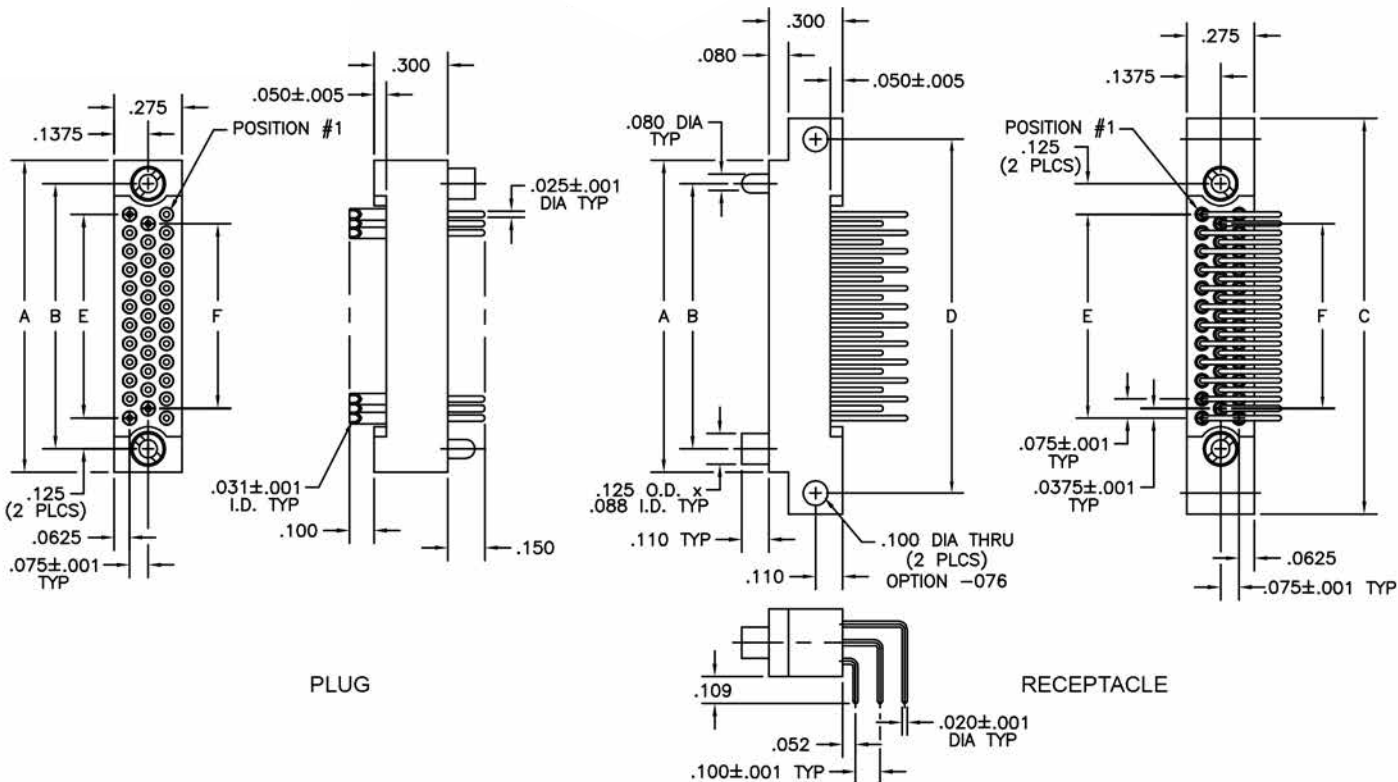
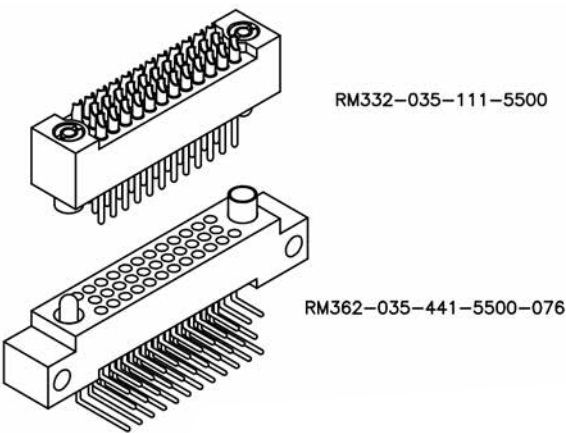
LEAD CONFIGURATION OPTIONS

PLUG: RM352-152-321-5500
RECEPTACLE: RM322-152-211-5500
XXXXX-XXX-XXX-XXXXXX

PLUG		RECEPTACLE	
SERIES			
RM .075" Screw Machine PC Connector		RM .075" Screw Machine PC Connector	
BODY			
3 3-Row	3 3-Row		
BODY STYLE:			
5 Plug, right angle, with mounting ears	2 Receptacle, straight, with mounting ears		
7 Plug, right angle, without mounting ears	4 Receptacle, straight, without mounting ears		
BODY MATERIAL:			
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)		
SIZE			
011, 023, 035, 047, 059, 071, 080, 092, 104, 122, 140, 152, 182, 206		011, 023, 035, 047, 059, 071, 080, 092, 104, 122, 140, 152, 182, 206	
CONTACTS			
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
31 Pin, right angle, dip solder, .109" x .020" dia	20 Socket, straight, dip solder, .109" x .020" dia		
32 Pin, right angle, dip solder, .140" x .020" dia	21 Socket, straight, dip solder, .140" x .020" dia		
33 Pin, right angle, dip solder, .172" x .020" dia	22 Socket, straight, dip solder, .172" x .020" dia		
34 Pin, right angle, dip solder, .109" x .016" dia	23 Socket, straight, dip solder, .250" x .020" dia		
35 Pin, right angle, dip solder, .140" x .016" dia	24 Socket, straight, solder cup		
36 Pin, right angle, dip solder, .172" x .016" dia	25 Socket, straight, flex circuit, .093" x .017" dia		
37 Pin, right angle, dip solder, .250" x .020" dia	26 Socket, straight, wire wrap®, .500" x .018 sq		
	27 Socket, straight, wire wrap®, .375" x .018 sq		
	28 Socket, straight, wire wrap®, .625" x .018 sq		
	29 Socket, connector saver, .150" x .025" dia		
	50 Socket, straight, dip solder, .140" x .016" dia		
	51 Socket, straight, dip solder, .172" x .016" dia		
	53 Socket, straight, stacking, .212" x .025" dia		
	54 Socket, straight, stacking, .244" x .025" dia		
	55 Socket, straight, stacking, .275" x .025" dia		
	64 Socket, straight, press-fit, .203" (Board .093"- .125" thk)		
	65 Socket, straight, press-fit, .323" (Board .156"- .200" thk)		
	66 Socket, straight, press-fit, .403" (Board .250"+ thk)		
PLATING OPTIONS:		PLATING OPTIONS:	
1 Gold plated termination	1 Gold plated termination		
2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>		
3 Pre-tinned termination, SAC305 alloy	3 Pre-tinned termination, SAC305 alloy (dip solder options only)		
HARDWARE			
STYLE OF HARDWARE: (See page R-46 & R-47) for all options)		STYLE OF HARDWARE: (See page R-46 & R-47) for all options)	
0256 None	0256 None		
55 Guide set	55 Guide set		
57 Two guide pins	57 Two guide pins		
58 Two guide sockets	58 Two guide sockets		
29 Fixed jackset	29 Fixed jackset		
30 Fixed jackset, reversed	30 Fixed jackset, reversed		
19 Two fixed jackscrews	19 Two fixed jackscrews		
20 Two fixed jackscrews	20 Two fixed jackscrews		
59 Hex turning jackset, .200"	59 Hex turning jackset, .200"		
60 Hex turning jackset, reversed, .200"	60 Hex turning jackset, reversed, .200"		
61 Two hex turning jackscrews, .200"	61 Two hex turning jackscrews, .200"		
62 Two hex turning jackscrews, .200"	62 Two hex turning jackscrews, .200"		
64 Turning jackset, .490"	64 Turning jackset, .490"		
65 Turning jackset, reversed, .490"	65 Turning jackset, reversed, .490"		
66 Two turning jackscrews, .490"	66 Two turning jackscrews, .490"		
67 Two turning jackscrews, .490"	67 Two turning jackscrews, .490"		
POLARIZATION:		POLARIZATION	
00 None	00 None		
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43		
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)		
OPTIONS			
BN Bond #1-72, sm. pattern hex nuts into mtg. ears			
<input checked="" type="checkbox"/> = Option not RoHS compliant			

THREE ROW – MOTHERBOARD- OR CHASSIS-TO-DAUGHTERBOARD

RM3
0.075" | 11 THROUGH 206 CONTACTS



DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875

DIMENSIONS						
SIZE	A	B	C	D	E	F
92	2.690	2.500	3.030	2.860	2.250	2.175
104	2.990	2.800	3.330	3.160	2.550	2.475
122	3.440	3.250	3.780	3.610	3.000	2.925
140	3.890	3.700	4.230	4.060	3.450	3.375
152	4.190	4.000	4.530	4.360	3.750	3.675
182	4.940	4.750	5.280	5.110	4.500	4.425
206	5.540	5.350	5.880	5.710	5.100	5.025

LEAD CONFIGURATION OPTIONS

PLUG: RM332-035-111-5500
 RECEPTACLE: RM362-035-441-5500-076
 XXXXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
3 3-Row	3 3-Row

BODY STYLE:	BODY STYLE:
1 Plug, straight, with mounting ears	6 Receptacle, right angle, with mounting ears
3 Plug, straight, without mounting ears	8 Receptacle, right angle, without mounting ears

BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)

SIZE	
011, 023, 035, 047, 059, 071, 080, 092, 104, 122, 140, 152, 182, 206	011, 023, 035, 047, 059, 071, 080, 092, 104, 122, 140, 152, 182, 206

CONTACTS	
----------	--

TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
10 Pin, straight, dip solder, .109" x .020" dia	44 Socket, right angle, dip solder, .109" x .020" dia
11 Pin, straight, solder cup	45 Socket, right angle, dip solder, .140" x .020" dia
12 Pin, straight, dip solder, .140" x .020" dia	46 Socket, right angle, dip solder, .172" x .020" dia
13 Pin, straight, dip solder, .172" x .020" dia	47 Socket, right angle, dip solder, .250" x .020" dia
14 Pin, straight, dip solder, .250" x .020" dia	
15 Pin, straight, flex, .093" x .017 dia	

PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	1 Gold plated termination
2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>
3 Pre-tinned termination, SAC305 alloy (dip solder options only)	3 Pre-tinned termination, SAC305 alloy

HARDWARE	
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STYLE OF HARDWARE: (See page R-46 & R-47) for all options)	STYLE OF HARDWARE: (See page R-46 & R-47) for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jacksockets	20 Two fixed jacksockets
59 Hex turning jackset, .200"	59 Hex turning jackset, .200"
60 Hex turning jackset, reversed, .200"	60 Hex turning jackset, reversed, .200"
61 Two hex turning jackscrews, .200"	61 Two hex turning jackscrews, .200"
62 Two hex turning jacksockets, .200"	62 Two hex turning jacksockets, .200"
64 Turning jackset, .490"	64 Turning jackset, .490"
65 Turning jackset, reversed, .490"	65 Turning jackset, reversed, .490"
66 Two turning jackscrews, .490"	66 Two turning jackscrews, .490"
67 Two turning jacksockets, .490"	67 Two turning jacksockets, .490"

POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

OPTIONS	
---------	--

076 PWB mounting holes, .100" dia (cross drilled)

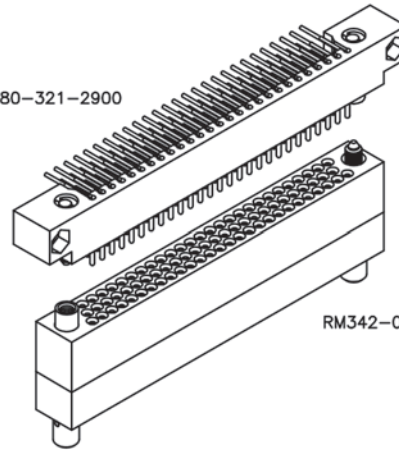
☒ = Option not RoHS compliant

THREE ROW – BOARD-TO-CRIMP REMOVABLE

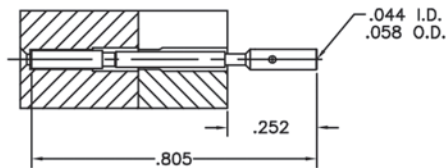
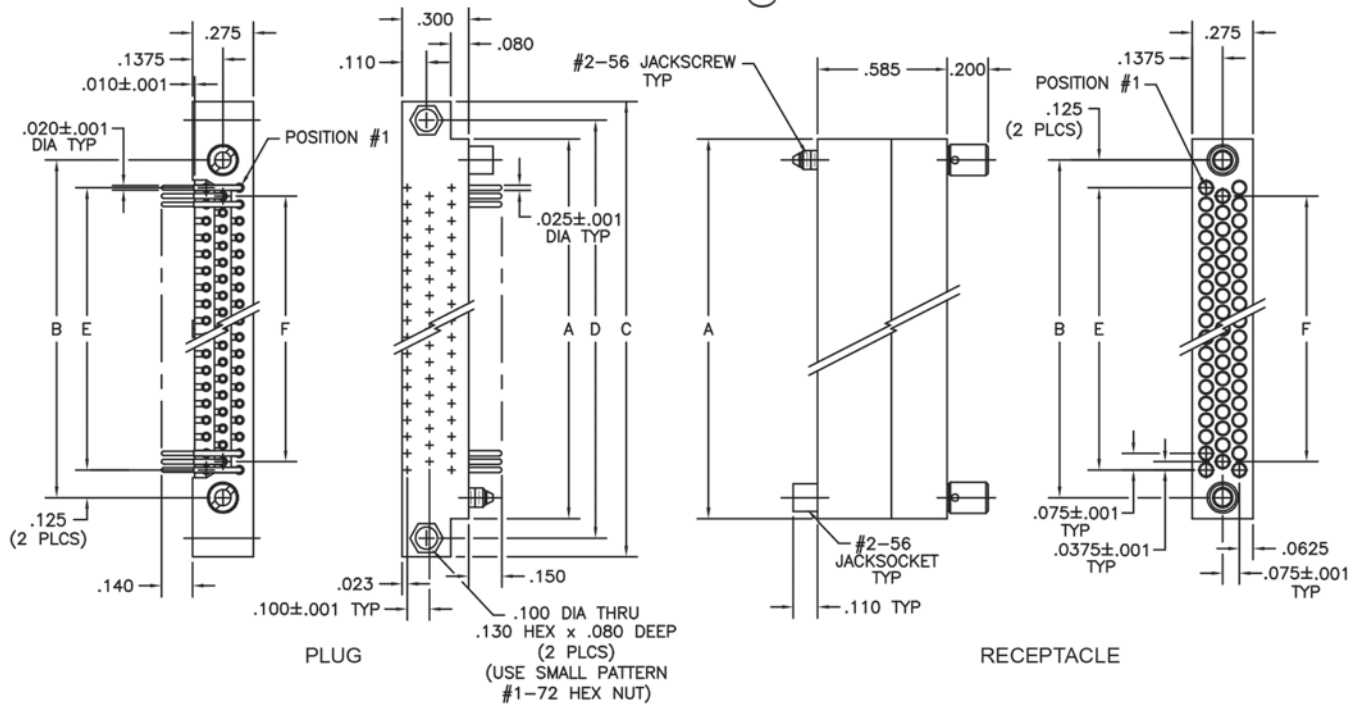
RM3

0.075" | 11 THROUGH 80 CONTACTS

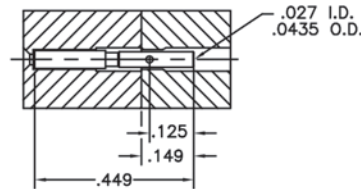
RM352-080-321-2900



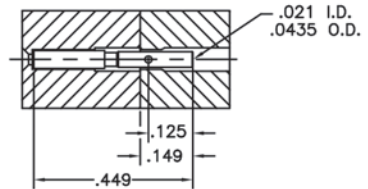
RM342-080-581-5900



20-22 AWG



24-26 AWG



28-30 AWG

NOTE:

When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM300-000-571-0000
24-26 AWG	RM300-000-581-0000
28-30 AWG	RM300-000-591-0000

DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875

LEAD CONFIGURATION OPTIONS

PLUG: RM352-080- 321-2900
 RECEPTACLE: RM342-080- 581-5900
 XXXXX-XXX-XXX-XXXXXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

3	3-Row	3	3-Row
BODY STYLE:		BODY STYLE:	
5	Plug, right angle, with mounting ears	2	Receptacle, straight, with mounting ears
7	Plug, right angle, without mounting ears	4	Receptacle, straight, without mounting ears
BODY MATERIAL:		BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)

SIZE

011, 023, 035, 047, 059, 071, 080 | 011, 023, 035, 047, 059, 071, 080

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
31	Pin, right angle, dip solder, .109" x .020" dia	00	Contacts not supplied
32	Pin, right angle, dip solder, .140" x .020" dia	57	Socket, straight, crimp removable (20-22 AWG)*
33	Pin, right angle, dip solder, .172" x .020" dia	58	Socket, straight, crimp removable (24-26 AWG)*
34	Pin, right angle, dip solder, .109" x .016" dia	59	Socket, straight, crimp removable (28-30 AWG)*
35	Pin, right angle, dip solder, .140" x .016" dia		
36	Pin, right angle, dip solder, .172" x .016" dia		
PLATING OPTIONS:		PLATING OPTIONS:	
1	Gold plated termination	0	No plating (use with Contact Option "00" only)
2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	1	Gold plated termination
3	Pre-tinned termination, SAC305 alloy		

HARDWARE

STYLE OF HARDWARE: (See page R-46 & R-47) for all options)		STYLE OF HARDWARE: (See page R-46 & R-47) for all options)	
0256	None	0256	None
55	Guide set	55	Guide set
57	Two guide pins	57	Two guide pins
58	Two guide sockets	58	Two guide sockets
29	Fixed jackset	29	Fixed jackset
30	Fixed jackset, reversed	30	Fixed jackset, reversed
19	Two fixed jackscrews	19	Two fixed jackscrews
20	Two fixed jackscrews	20	Two fixed jackscrews
59	Hex turning jackset, .200" knob	59	Hex turning jackset, .200" knob
60	Hex turning jackset, reversed, .200" knob	60	Hex turning jackset, reversed, .200" knob
61	Two hex turning jackscrews, .200" knob	61	Two hex turning jackscrews, .200" knob
62	Two hex turning jackscrews, .200" knob	62	Two hex turning jackscrews, .200" knob
64	Turning jackset, .490" knob	64	Turning jackset, .490" knob
65	Turning jackset, reversed, .490" knob	65	Turning jackset, reversed, .490" knob
66	Two turning jackscrews, .490" knob	66	Two turning jackscrews, .490" knob
67	Two turning jackscrews, .490" knob	67	Two turning jackscrews, .490" knob
POLARIZATION:		POLARIZATION	
00	None	00	None
01	thru 68 are special identifiers, see R-43	01	thru 68 are special identifiers, see R-43
70	Same configuration as 01 without Loctite® (To be keyed by customer)	70	Same configuration as 01 without Loctite® (To be keyed by customer)

OPTIONS

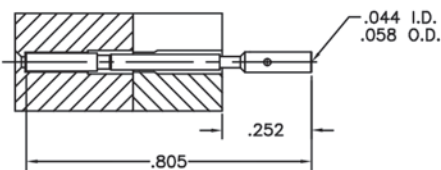
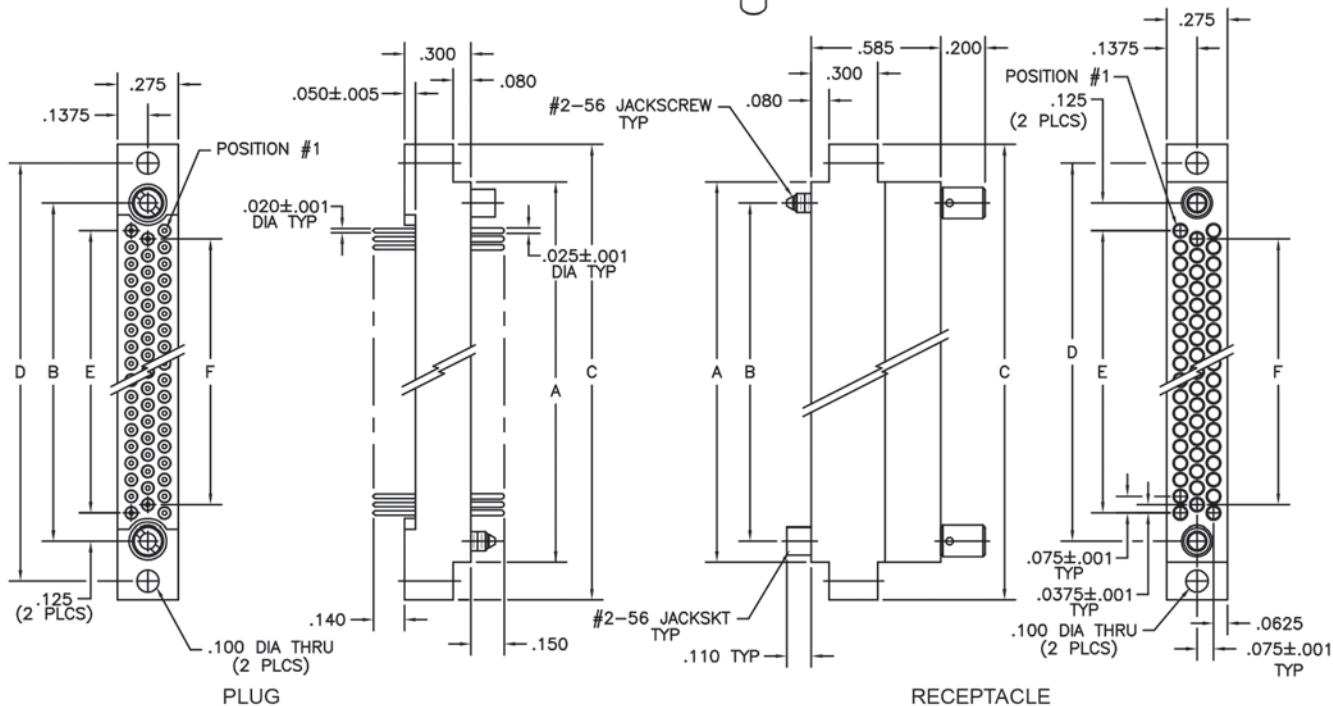
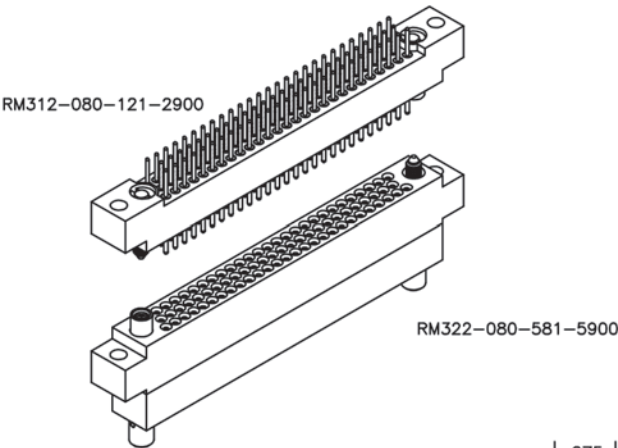
BN Bond #1-72, sm. pattern hex nuts into mtg. ears |

- * Full compliment of crimp removable sockets packaged with connectors
1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
 2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG)
CDG4603 (20-22 AWG)
 3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
 4. Crimp contact part number on previous page.

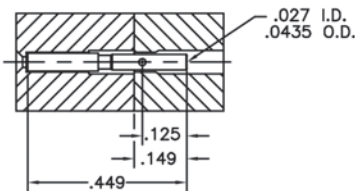
☒ = Option not RoHS compliant

THREE ROW – CABLE- OR BOARD-TO-CRIMP REMOVABLE

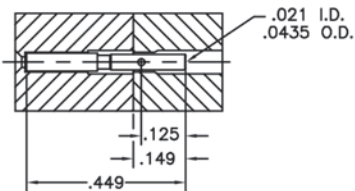
RM3
0.075" | 11 THROUGH 80 CONTACTS



20-22 AWG



24-26 AWG



28-30 AWG

NOTE:
When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM300-000-571-0000
24-26 AWG	RM300-000-581-0000
28-30 AWG	RM300-000-591-0000

DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875

LEAD CONFIGURATION OPTIONS

PLUG: RM312-080-121-2900
 RECEPTACLE: RM322-080-581-5900
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector
BODY	
3 3-Row	3 3-Row
BODY STYLE:	BODY STYLE:
1 Plug, straight, with mounting ears	2 Receptacle, straight, with mounting ears
3 Plug, straight, without mounting ears	4 Receptacle, straight, without mounting ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)
SIZE	
011, 023, 035, 047, 059, 071, 080	011, 023, 035, 047, 059, 071, 080
CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
10 Pin, straight, dip solder, .109" x .020" dia	00 Contacts not supplied
11 Pin, straight, solder cup	57 Socket, straight, crimp removable (20-22 AWG)*
12 Pin, straight, dip solder, .140" x .020" dia	58 Socket, straight, crimp removable (24-26 AWG)*
13 Pin, straight, dip solder, .172" x .020" dia	59 Socket, straight, crimp removable (28-30 AWG)*
14 Pin, straight, dip solder, .250" x .020" dia	
15 Pin, straight, flex, .093" x .017" dia	
PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	0 No plating (use with Contact Option "00" only)
2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	1 Gold plated termination
3 Pre-tinned termination, SAC305 alloy (dip solder options only)	
HARDWARE	
STYLE OF HARDWARE: (See page R-46 & R-47) for all options)	STYLE OF HARDWARE: (See page R-46 & R-47) for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jacksockets	20 Two fixed jacksockets
59 Hex turning jackset, .200" knob	59 Hex turning jackset, .200" knob
60 Hex turning jackset, reversed, .200" knob	60 Hex turning jackset, reversed, .200" knob
61 Two hex turning jackscrews, .200" knob	61 Two hex turning jackscrews, .200" knob
62 Two hex turning jacksockets, .200" knob	62 Two hex turning jacksockets, .200" knob
64 Turning jackset, .490" knob	64 Turning jackset, .490" knob
65 Turning jackset, reversed, .490" knob	65 Turning jackset, reversed, .490" knob
66 Two turning jackscrews, .490" knob	66 Two turning jackscrews, .490" knob
67 Two turning jacksockets, .490" knob	67 Two turning jacksockets, .490" knob
POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

* Full compliment of crimp removable sockets packaged with connectors

1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG)
CDG4603 (20-22 AWG)
3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
4. Crimp contact part number on previous page.

☒ = Option not RoHS compliant

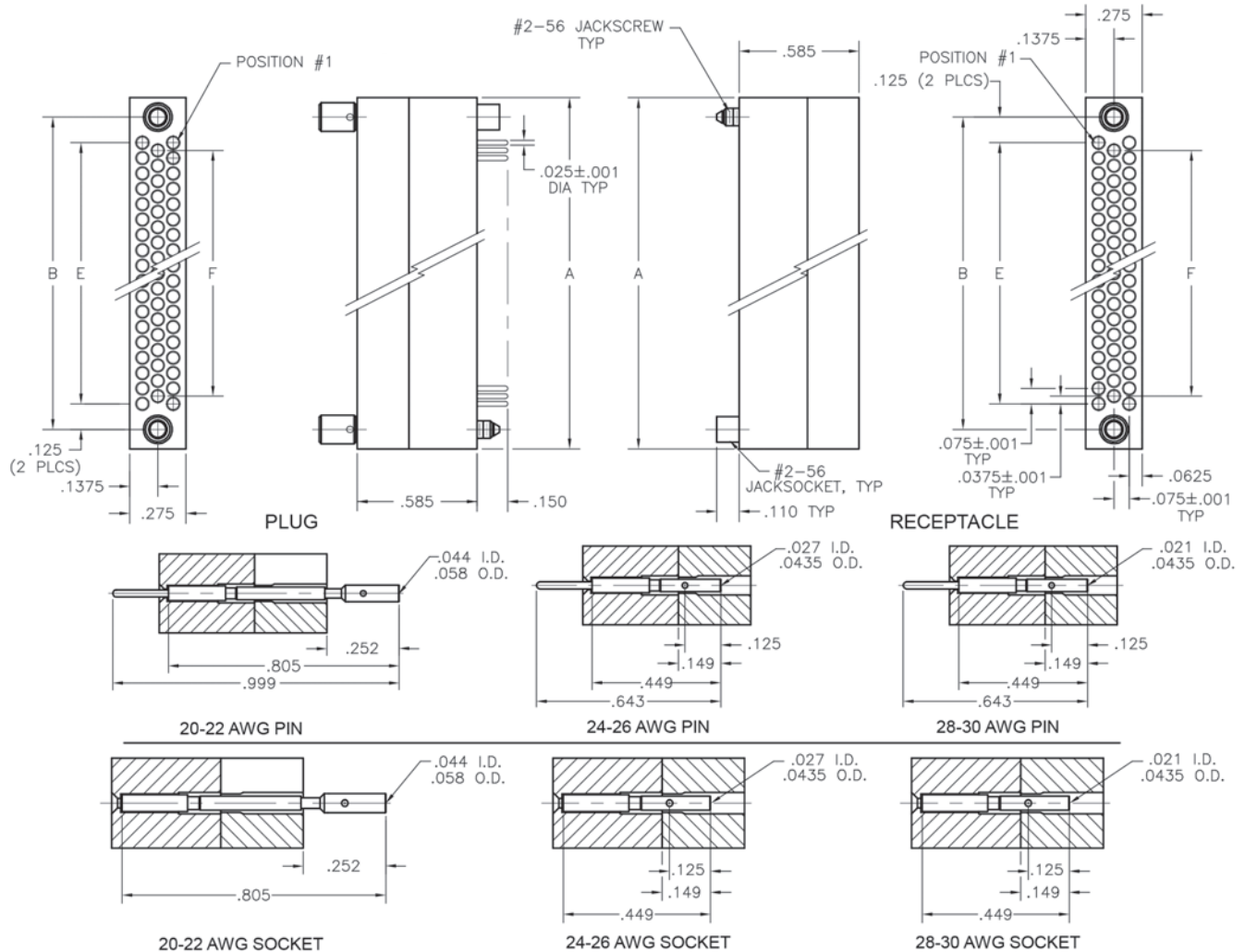
THREE ROW – CRIMP REMOVABLE-TO-CRIMP REMOVABLE

RM3

0.075" | 11 THROUGH 80 CONTACTS

RM332-080-181-5900

RM342-080-581-2900



NOTE: When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG PIN	RM300-000-171-0000
24-26 AWG PIN	RM300-000-181-0000
28-30 AWG PIN	RM300-000-191-0000
20-22 AWG SKT	RM300-000-571-0000
24-26 AWG SKT	RM300-000-581-0000
28-30 AWG SKT	RM300-000-591-0000

DIMENSIONS				
SIZE	A	B	E	F
11	.665	.475	.225	.150
23	.965	.775	.525	.450
35	1.265	1.075	.825	.750
47	1.565	1.375	1.125	1.050
59	1.865	1.675	1.425	1.350
71	2.165	1.975	1.725	1.650
80	2.390	2.200	1.950	1.875

LEAD CONFIGURATION OPTIONS

PLUG: RM332-080- 181-5900
 RECEPTACLE: RM342-080- 581-2900
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
3 3-Row	3 3-Row

BODY STYLE:	BODY STYLE:
1 Plug, straight, with mounting ears	2 Receptacle, straight, with mounting ears
3 Plug, straight, without mounting ears	4 Receptacle, straight, without mounting ears

BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)

SIZE	
011, 023, 035, 047, 059, 071, 080	011, 023, 035, 047, 059, 071, 080

CONTACTS	
----------	--

TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
00 Contacts not supplied	00 Contacts not supplied
17 Pin, straight, crimp removable (20-22 AWG)*	57 Socket, straight, crimp removable (20-22 AWG)*
18 Pin, straight, crimp removable (24-26 AWG)*	58 Socket, straight, crimp removable (24-26 AWG)*
19 Pin, straight, crimp removable (28-30 AWG)*	59 Socket, straight, crimp removable (28-30 AWG)*

PLATING OPTIONS:	PLATING OPTIONS:
0 No plating (use with Contact Option "00" only)	0 No plating (use with Contact Option "00" only)
1 Gold plated termination	1 Gold plated termination

HARDWARE	
----------	--

STYLE OF HARDWARE: (See page R-46 & R-47) for all options)	STYLE OF HARDWARE: (See page R-46 & R-47) for all options)
0256 None	0256 None
55 Guide set	55 Guide set
57 Two guide pins	57 Two guide pins
58 Two guide sockets	58 Two guide sockets
29 Fixed jackset	29 Fixed jackset
30 Fixed jackset, reversed	30 Fixed jackset, reversed
19 Two fixed jackscrews	19 Two fixed jackscrews
20 Two fixed jacksockets	20 Two fixed jacksockets
59 Hex turning jackset, .200" knob	59 Hex turning jackset, .200" knob
60 Hex turning jackset, reversed, .200" knob	60 Hex turning jackset, reversed, .200" knob
61 Two hex turning jackscrews, .200" knob	61 Two hex turning jackscrews, .200" knob
62 Two hex turning jacksockets, .200" knob	62 Two hex turning jacksockets, .200" knob
64 Turning jackset, .490" knob	64 Turning jackset, .490" knob
65 Turning jackset, reversed, .490" knob	65 Turning jackset, reversed, .490" knob
66 Two turning jackscrews, .490" knob	66 Two turning jackscrews, .490" knob
67 Two turning jacksockets, .490" knob	67 Two turning jacksockets, .490" knob

POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)

* Full compliment of crimp removable sockets packaged with connectors

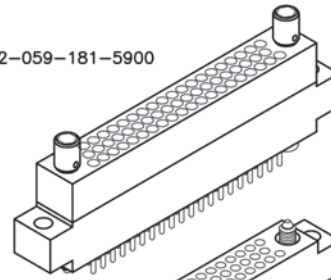
1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG)
CDG4603 (20-22 AWG)
3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
4. Crimp contact part number on previous page.

THREE ROW – CRIMP REMOVABLE-TO-CABLE OR BOARD

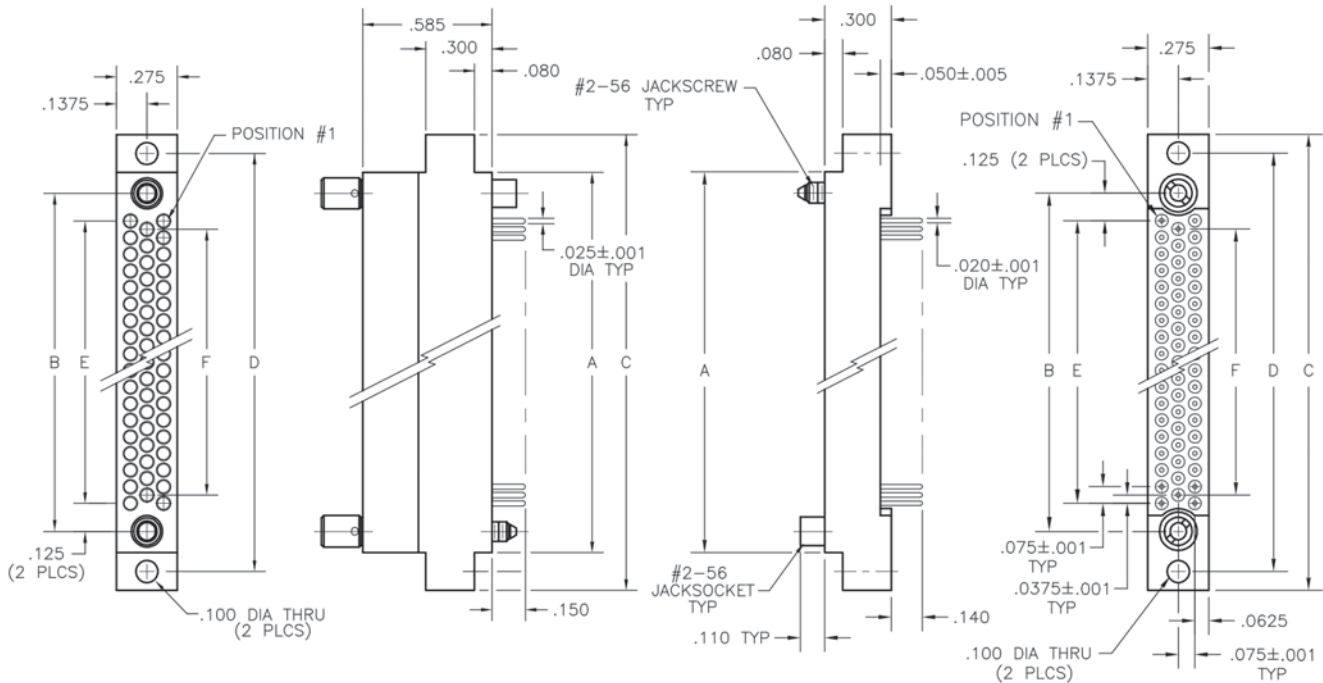
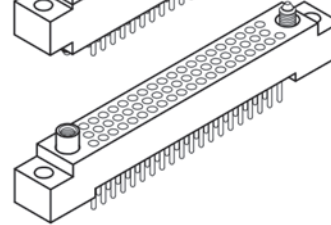
RM3

0.075" | 11 THROUGH 80 CONTACTS

RM312-059-181-5900

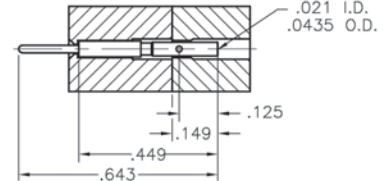
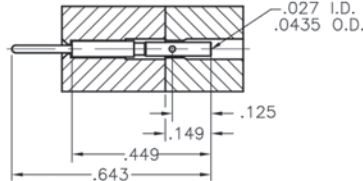
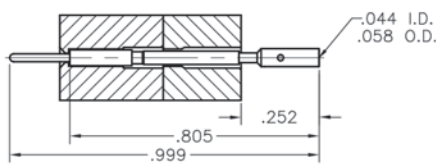


RM322-059-211-2900



PLUG

RECEPTACLE



20-22 AWG

24-26 AWG

28-30 AWG

NOTE:

When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM300-000-171-0000
24-26 AWG	RM300-000-181-0000
28-30 AWG	RM300-000-191-0000

DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875

LEAD CONFIGURATION OPTIONS

PLUG: RM312-059-181-5900
 RECEPTACLE: RM322-059-211-2900
 XXXXX-XXX-XXX-XXXX

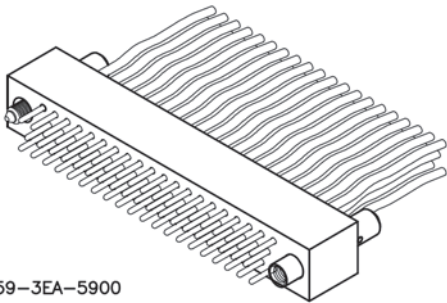
PLUG		RECEPTACLE	
SERIES			
RM .075" Screw Machine PC Connector		RM .075" Screw Machine PC Connector	
BODY			
3 3-Row	3 3-Row		
BODY STYLE:			
1 Plug, straight, with mounting ears	2 Receptacle, straight, with mounting ears		
3 Plug, straight, without mounting ears	4 Receptacle, straight, without mounting ears		
BODY MATERIAL:			
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)		
SIZE			
011, 023, 035, 047, 059, 071, 080		011, 023, 035, 047, 059, 071, 080	
CONTACTS			
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
00 Contacts not supplied	20 Socket, straight, dip solder, .109" x .020" dia		
17 Pin, straight, crimp removable (20-22 AWG)*	21 Socket, straight, dip solder, .140" x .020" dia		
18 Pin, straight, crimp removable (24-26 AWG)*	22 Socket, straight, dip solder, .172" x .020" dia		
19 Pin, straight, crimp removable (28-30 AWG)*	23 Socket, straight, dip solder, .250" x .020" dia		
	24 Socket, straight, solder cup		
	25 Socket, straight, flex circuit, .093" x .017" dia		
	26 Socket, straight, wire wrap ®, .500" x .018 sq		
	27 Socket, straight, wire wrap ®, .375" x .018 sq		
	28 Socket, straight, wire wrap ®, .625" x .018 sq		
	29 Socket, connector saver, .150" x .025" dia		
	50 Socket, straight, dip solder, .140" x .016" dia		
	51 Socket, straight, dip solder, .172" x .016" dia		
	53 Socket, straight, stacking, .212" x .025" dia		
	54 Socket, straight, stacking, .244" x .025" dia		
	55 Socket, straight, stacking, .275" x .025" dia		
	64 Socket, straight, press-fit, .203" (Board .093"-.125" thk)		
	65 Socket, straight, press-fit, .323" (Board .156"-.200" thk)		
	66 Socket, straight, press-fit, .403" (Board .250"+ thk)		
PLATING OPTIONS:		PLATING OPTIONS:	
0 No plating (use with Contact Option "00" only)	1 Gold plated termination	1 Gold plated termination	
1 Gold plated termination	2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	
	3 Pre-tinned termination, SAC305 alloy (dip solder options only)	3 Pre-tinned termination, SAC305 alloy (dip solder options only)	
HARDWARE			
STYLE OF HARDWARE: (See page R-46 & R-47) for all options)		STYLE OF HARDWARE: (See page R-46 & R-47) for all options)	
0256 None	0256 None		
55 Guide set	55 Guide set		
57 Two guide pins	57 Two guide pins		
58 Two guide sockets	58 Two guide sockets		
29 Fixed jackset	29 Fixed jackset		
30 Fixed jackset, reversed	30 Fixed jackset, reversed		
19 Two fixed jackscrews	19 Two fixed jackscrews		
20 Two fixed jackscrews	20 Two fixed jackscrews		
59 Hex turning jackset, .200" knob	59 Hex turning jackset, .200" knob		
60 Hex turning jackset, reversed, .200" knob	60 Hex turning jackset, reversed, .200" knob		
61 Two hex turning jackscrews, .200" knob	61 Two hex turning jackscrews, .200" knob		
62 Two hex turning jackscrews, .200" knob	62 Two hex turning jackscrews, .200" knob		
64 Turning jackset, .490" knob	64 Turning jackset, .490" knob		
65 Turning jackset, reversed, .490" knob	65 Turning jackset, reversed, .490" knob		
66 Two turning jackscrews, .490" knob	66 Two turning jackscrews, .490" knob		
67 Two turning jackscrews, .490" knob	67 Two turning jackscrews, .490" knob		
POLARIZATION:		POLARIZATION	
00 None	00 None		
01 thru 68 are special identifiers, see R-43	01 thru 68 are special identifiers, see R-43		
70 Same configuration as 01 without Loctite® (To be keyed by customer)	70 Same configuration as 01 without Loctite® (To be keyed by customer)		

* Full complement of crimp removable sockets packaged with connectors

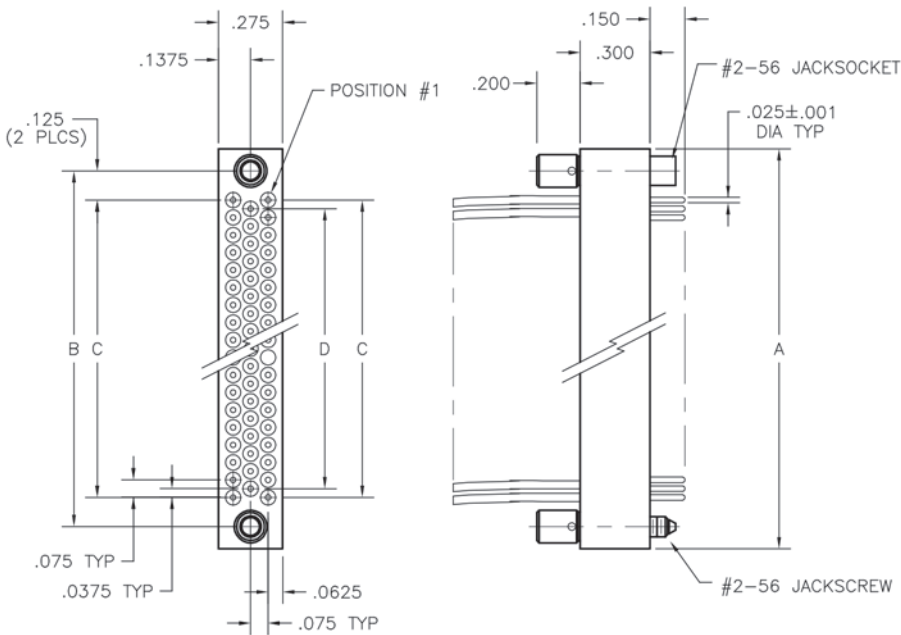
1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
 2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG) / CDG4603 (20-22 AWG)
 3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
 4. Crimp contact part number on previous page.
- ☒ = Option not RoHS compliant

THREE ROW – CRIMPED WIRE I/O PLUG

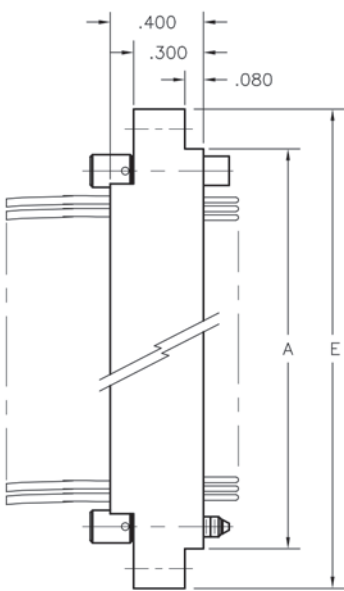
RA3
0.075" | 11 THROUGH 104 CONTACTS



RA3D2-059-3EA-5900



PLUG WITHOUT
MOUNTING EARS OR
POTTING WELL



PLUG WITH
MOUNTING EARS AND
POTTING WELL

DIMENSIONS					
SIZE	A	B	C	D	E
11	.665	.475	.225	.150	1.005
23	.965	.775	.525	.450	1.305
35	1.265	1.075	.825	.750	1.605
47	1.565	1.375	1.125	1.050	1.905
59	1.865	1.675	1.425	1.350	2.205
71	2.165	1.975	1.725	1.650	2.505
80	2.390	2.200	1.950	1.875	2.730
104	2.990	2.800	2.550	2.475	3.330

RA3 PLUG CONNECTORS MATE WITH:		
MATE	DESCRIPTION	PAGE
RM322	3 ROW STRAIGHT RECEPTACLE WITH EARS	R-21
RM342	3 ROW STRAIGHT RECEPTACLE WITHOUT EARS	R-21
RM362	3 ROW RIGHT ANGLE RECEPTACLE WITH EARS	R-23
RM382	3 ROW RIGHT ANGLE RECEPTACLE WITHOUT EARS	R-23

REPLACEMENT CONTACTS:
RA000-001-100-0000
RA000-001-300-0000

SEE PAGE R-37 FOR CRIMP INSTRUCTIONS, CONTACT
INSERTION AND CONTACT REMOVAL TOOLS.

LEAD CONFIGURATION OPTIONS

PLUG: RA3D2-059-3EA-5900
XXXXX-XXX-XXX-XXXX

SERIES

RA .075" Screw Machine PC Connector

BODY

3 3-Row

BODY STYLE:
A Plug, straight, w/ potting well, w/ mounting ears
B Plug, straight, w/ potting well, w/out mounting ears
C Plug, straight, w/out potting well, w/ mounting ears
D Plug, straight, w/out potting well, w/out mounting ears

BODY MATERIAL:
2 Polyphenylene sulfide (PPS)

SIZE

011, 023, 035, 047, 059, 071, 080, 104

CONTACTS

TYPE CONTACTS/TERMINATIONS:
1 Pin, crimp, 28-30 awg. contact
3 Pin, crimp, 22-26 awg. contact

WIRING OPTIONS:
XX See wiring codes at right

HARDWARE

STYLE OF HARDWARE:
0256 None
Guide Hardware
5500 Guide set
5501-5568 Guide set, polarized (see page R-47)
5570 Guide set, polarized, same as 5501 without Loctite®
(to be keyed by customer)
5700 Two guide pins
5800 Two guide sockets
Jacking Hardware
2900 Fixed jackset
3000 Fixed jackset, reversed
1900 Two fixed jackscrews
2000 Two fixed jackscrews
5900 Hex turning jackset, .200" knob
6000 Hex turning jackset, reversed, .200" knob
6100 Two hex turning jackscrews, .200" knob
6200 Two hex turning jackscrews, .200" knob
6400 Turning jackset, .490" knob
6500 Turning jackset, reversed, .490" knob
6600 Two turning jackscrews, .490" knob
6700 Two turning jackscrews, .490" knob

☒ = Option not RoHS compliant

If potting well is used with a pre-wired connector, it will be potted and not repairable.
If potting well is not used with a pre-wired connector, it will not be potted.
Contacts that are not potted in place can be removed and replaced only one time.
See page R-37 for crimp instructions, contact insertion and contact removal tools.

WIRE CODES

TYPE and COLOR			LENGTH	
Code	Size	Color	Code	Length (+1"/-0")
Mil-W-16878/4				
A	22 awg	Ten repeating	A	6"
B	22 awg	White	B	12"
C	24 awg	Ten repeating	C	18"
D	24 awg	White	D	24"
E	26 awg	Ten repeating	E	30"
F	26 awg	White	F	36"
G	28 awg	Ten repeating	G	42"
H	28 awg	White	H	48"
J	30 awg	Ten repeating	J	54"
K	30 awg	White	K	60"
Mil-W-22759/33				
L	22 awg	Ten repeating	L	66"
M	22 awg	White	M	72"
N	24 awg	Ten repeating	N	84"
P	24 awg	White	P	96"
R	26 awg	Ten repeating	R	108"
S	26 awg	White	S	120"
T	28 awg	Ten repeating		
U	28 awg	White		
V	30 awg	Ten repeating		
W	30 awg	White		

USING WIRE CODES:

RA3D2-059-3EA-5900

Type and Color Length

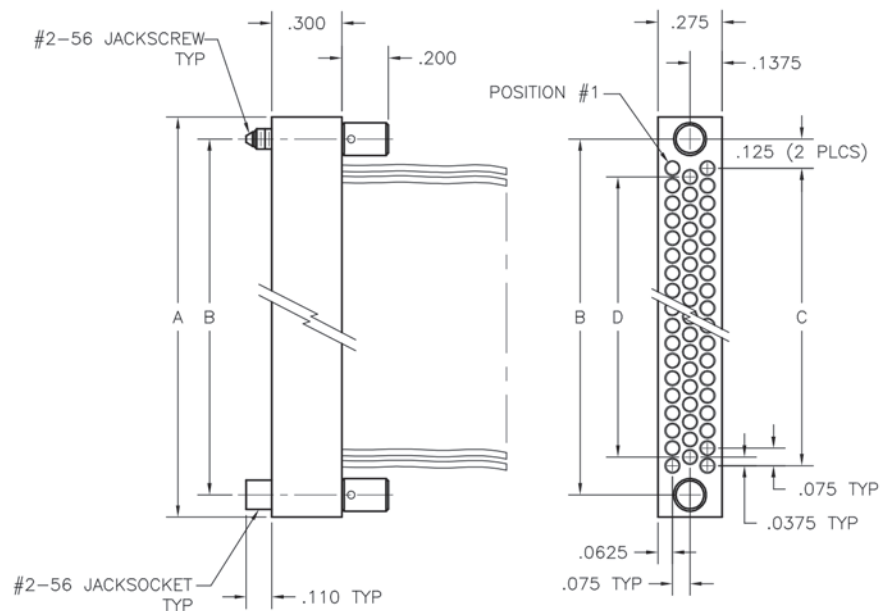
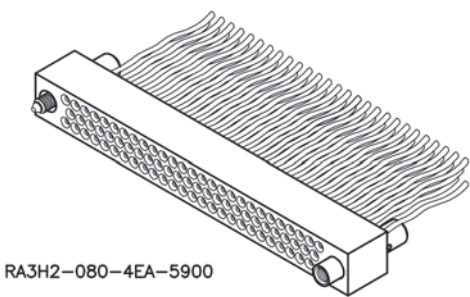
Color sequence for
Ten repeating wire colors:
(Beginning in position #1)

- Black
- Brown
- Red
- Orange
- Yellow
- Green
- Blue
- Violet
- Grey
- White

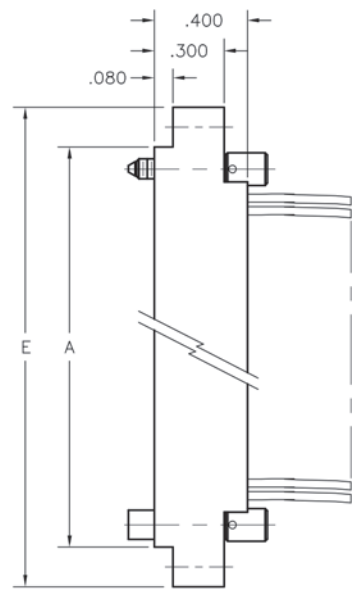
Repeat this sequence until
connector is fully loaded.

THREE ROW – CRIMPED WIRE I/O RECEPTACLE

RA3
0.075" | 11 THROUGH 104 CONTACTS



RECEPTACLE WITHOUT
MOUNTING EARS OR
POTTING WELL



RECEPTACLE WITH
MOUNTING EARS AND
POTTING WELL

DIMENSIONS					
SIZE	A	B	C	D	E
11	.665	.475	.225	.150	1.005
23	.965	.775	.525	.450	1.305
35	1.265	1.075	.825	.750	1.605
47	1.565	1.375	1.125	1.050	1.905
59	1.865	1.675	1.425	1.350	2.205
71	2.165	1.975	1.725	1.650	2.505
80	2.390	2.200	1.950	1.875	2.730
104	2.990	2.800	2.550	2.475	3.330

RA3 RECEPTACLE CONNECTORS MATE WITH:		
MATE	DESCRIPTION	PAGE
RM312	3 ROW STRAIGHT PLUG WITH EARS	R-32
RM332	3 ROW STRAIGHT PLUG WITHOUT EARS	R-32
RM352	3 ROW RIGHT ANGLE PLUG WITH EARS	R-26
RM372	3 ROW RIGHT ANGLE PLUG WITHOUT EARS	R-26

REPLACEMENT CONTACTS:
RA000-001-200-0000
RA000-001-400-0000

SEE PAGE R-37 FOR CRIMP INSTRUCTIONS, CONTACT
INSERTION AND CONTACT REMOVAL TOOLS.

LEAD CONFIGURATION OPTIONS

PLUG: RA3H2-080-4EA-5900
XXXXX-XXX-XXX-XXXX

SERIES

RA .075" Screw Machine PC Connector

BODY

3 3-Row

BODY STYLE:
E Receptacle, straight, w/ potting well, w/ mounting ears
F Receptacle, straight, w/ potting well, w/out mounting ears
G Receptacle, straight, w/out potting well, w/ mounting ears
H Receptacle, straight, w/out potting well, w/out mounting ears

BODY MATERIAL:
2 Polyphenylene sulfide (PPS)

SIZE

011, 023, 035, 047, 059, 071, 080, 104

CONTACTS

TYPE CONTACTS/TERMINATIONS:
2 Socket, crimp, 28-30 awg. contact
4 Socket, crimp, 22-26 awg. contact

WIRING OPTIONS:
XX See wiring codes at right

HARDWARE

STYLE OF HARDWARE:
0256 None
Guide Hardware
5500 Guide set
5501-5568 Guide set, polarized (see page R-47)
5570 Guide set, polarized, same as 5501 without Loctite®
(to be keyed by customer)
5700 Two guide pins
5800 Two guide sockets
Jacking Hardware
2900 Fixed jackset
3000 Fixed jackset, reversed
1900 Two fixed jackscrews
2000 Two fixed jacksockets
5900 Hex turning jackset, .200" knob
6000 Hex turning jackset, reversed, .200" knob
6100 Two hex turning jackscrews, .200" knob
6200 Two hex turning jacksockets, .200" knob
6400 Turning jackset, .490" knob
6500 Turning jackset, reversed, .490" knob
6600 Two turning jackscrews, .490" knob
6700 Two turning jacksockets, .490" knob

[X] = Option not RoHS compliant

If potting well is used with a pre-wired connector, it will be potted and not repairable.
If potting well is not used with a pre-wired connector, it will not be potted.
Contacts that are not potted in place can be removed and replaced only one time.
See page R-37 for crimp instructions, contact insertion and contact removal tools.

WIRE CODES

TYPE and COLOR			LENGTH	
Code	Size	Color	Code	Length (+1"/-0")
Mil-W-16878/4				
A	22 awg	Ten repeating	A	6"
B	22 awg	White	B	12"
C	24 awg	Ten repeating	C	18"
D	24 awg	White	D	24"
E	26 awg	Ten repeating	E	30"
F	26 awg	White	F	36"
G	28 awg	Ten repeating	G	42"
H	28 awg	White	H	48"
J	30 awg	Ten repeating	J	54"
K	30 awg	White	K	60"
Mil-W-22759/33				
L	22 awg	Ten repeating	L	66"
M	22 awg	White	M	72"
N	24 awg	Ten repeating	N	84"
P	24 awg	White	P	96"
R	26 awg	Ten repeating	R	108"
S	26 awg	White	S	120"
T	28 awg	Ten repeating		
U	28 awg	White		
V	30 awg	Ten repeating		
W	30 awg	White		

USING WIRE CODES:

RA3H2-080-4EA-5900

Type and Color Length

Color sequence for
Ten repeating wire colors:

(Beginning in position #1)

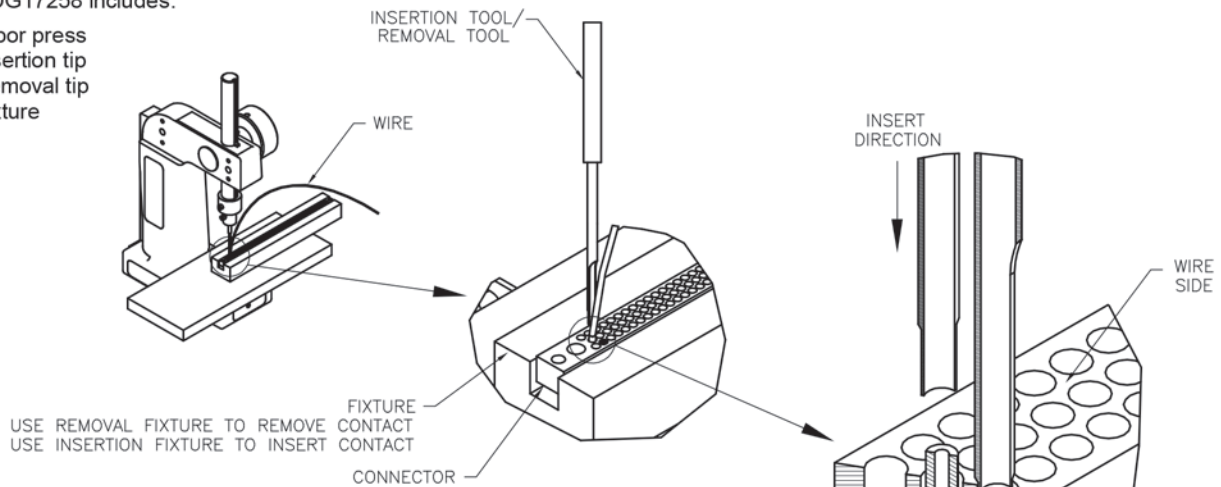
Black
Brown
Red
Orange
Yellow
Green
Blue
Violet
Grey
White

Repeat this sequence until
connector is fully loaded.

RA ASSEMBLY INSTRUCTIONS

CDG17258 includes:

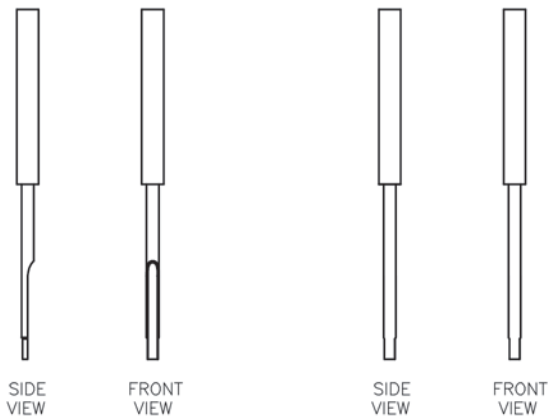
Arbor press
Insertion tip
Removal tip
Fixture



CONTACT INSERTION INSTRUCTIONS:

1. Load connector with crimped contacts.
2. Place preloaded connector on insertion fixture with wire side facing up.
3. Position fixture so insertion tool is over contact.
4. Place wire against insertion tool cutout trench.
5. Crank handle on press to seat contact.

FIGURE 1



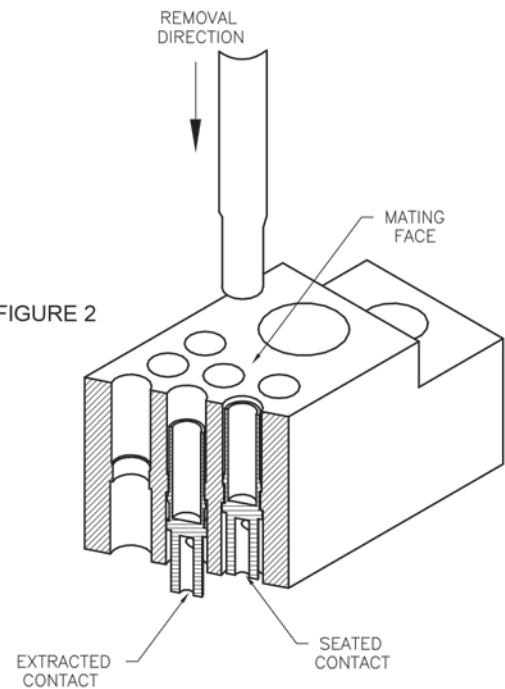
INSERTION TOOL:
AIRBORN P/N: CDG17256

REMOVAL TOOL:
AIRBORN P/N: CDG17257

CONTACT REMOVAL INSTRUCTIONS:

1. Place connector on removal fixture with mating side facing up.
2. Position fixture so removal tool is over contact.
3. Crank handle on press to remove contact.

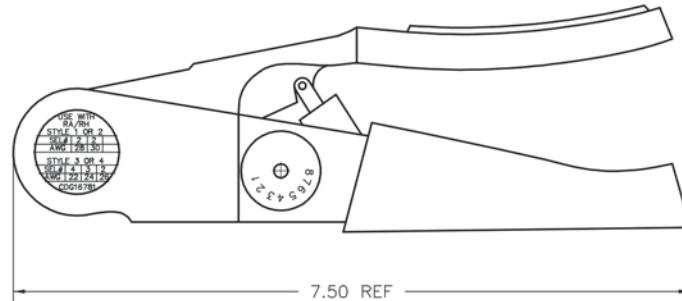
FIGURE 2



RA ASSEMBLY INSTRUCTIONS

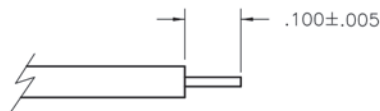
1. SET UP CRIMP TOOL

Install proper positioner into the crimp tool. Crimp settings are shown on the positioner for various wire gauge sizes. Adjust the wheel to the proper setting.



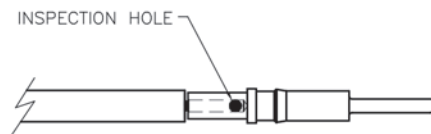
2. STRIP WIRE

Remove insulation from wire as shown.



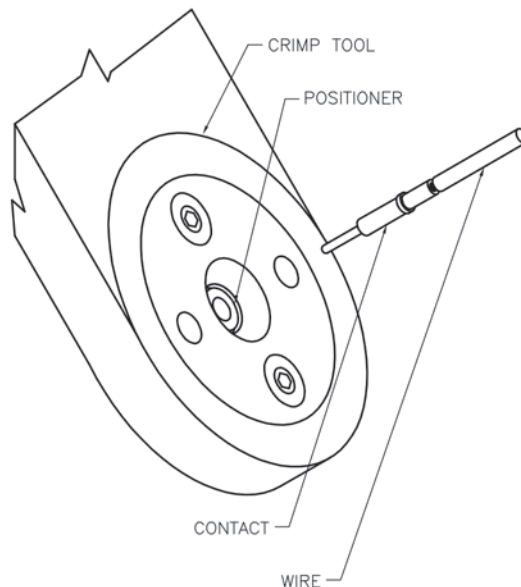
3. INSERT WIRE

Insert wire into the contact. Wire should be visible in the inspection hole.



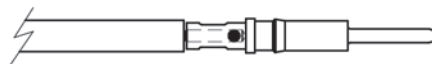
4. INSERT CONTACT INTO CRIMP TOOL

Make sure the contact is fully seated in the positioner. Squeeze the handles fully. The ratcheting mechanism of the tool will not allow a partial crimp. The handles will not return to the open position until fully compressed. Release the handles and remove the contact.



5. INSPECT CRIMPED CONTACT

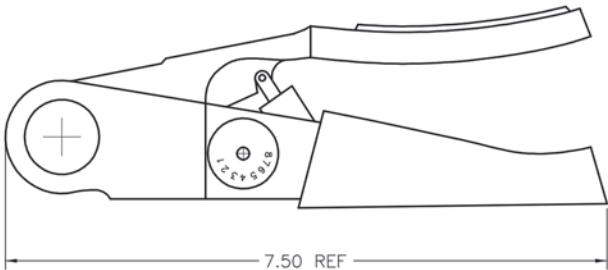
Crimp indentions should be uniform in depth and location.



RA ASSEMBLY INSTRUCTIONS

Crimp Tool

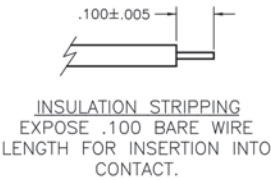
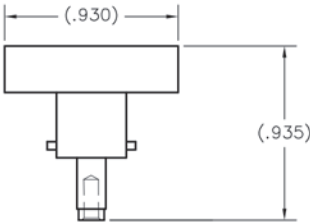
TC2963 - CRIMP TOOL
REF M22520/2-01



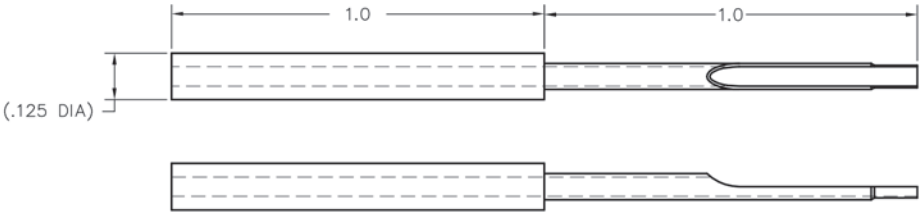
Crimp Positioner



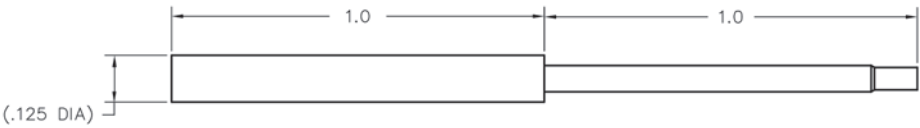
TOOL SELECTION TABLE	
CONTACT	POSITIONER
RA000-001-100-0000	CDG16781
RA000-001-200-0000	
RA000-001-300-0000	
RA000-001-400-0000	



Insertion Tool - CDG17256

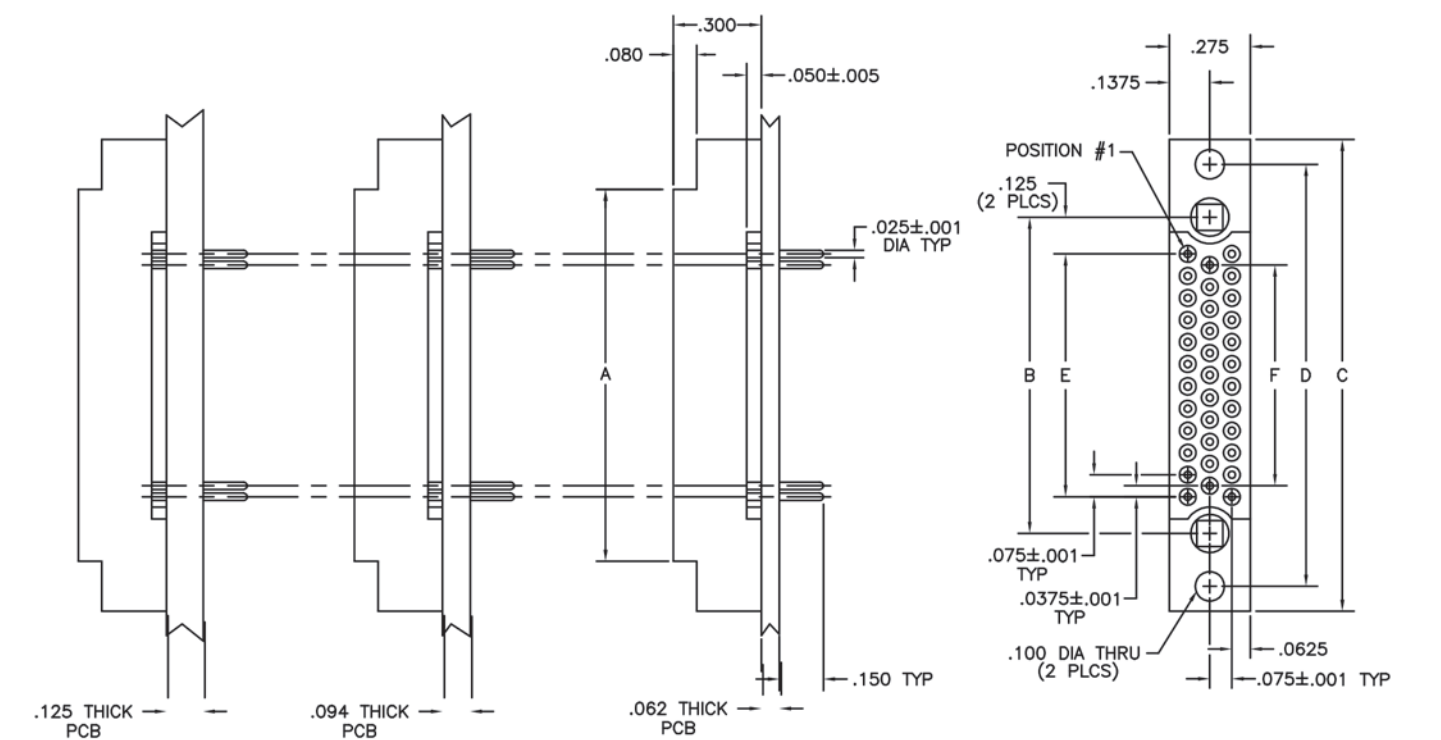
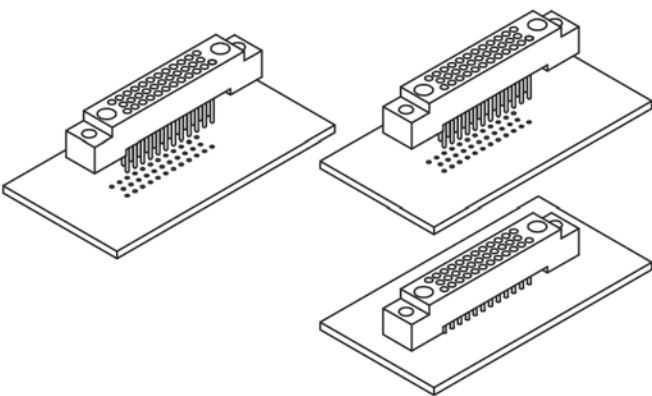


Removal Tool - CDG17257



THREE ROW – PC BOARD STACKABLE OR CONNECTOR SAVER

RM3
0.075" | 11 THROUGH 206 CONTACTS



NOTE:
Stacking connectors cannot have mating hardware.
(-0256 indicates no hardware)

PC BOARD THICKNESS	TERMINATION LENGTH	PART NUMBER
.062	.212	RM322-035-531-0256
.094	.244	RM322-035-541-0256
.125	.275	RM322-035-551-0256
CONNECTOR SAVER	.150	RM322-035-291-0256

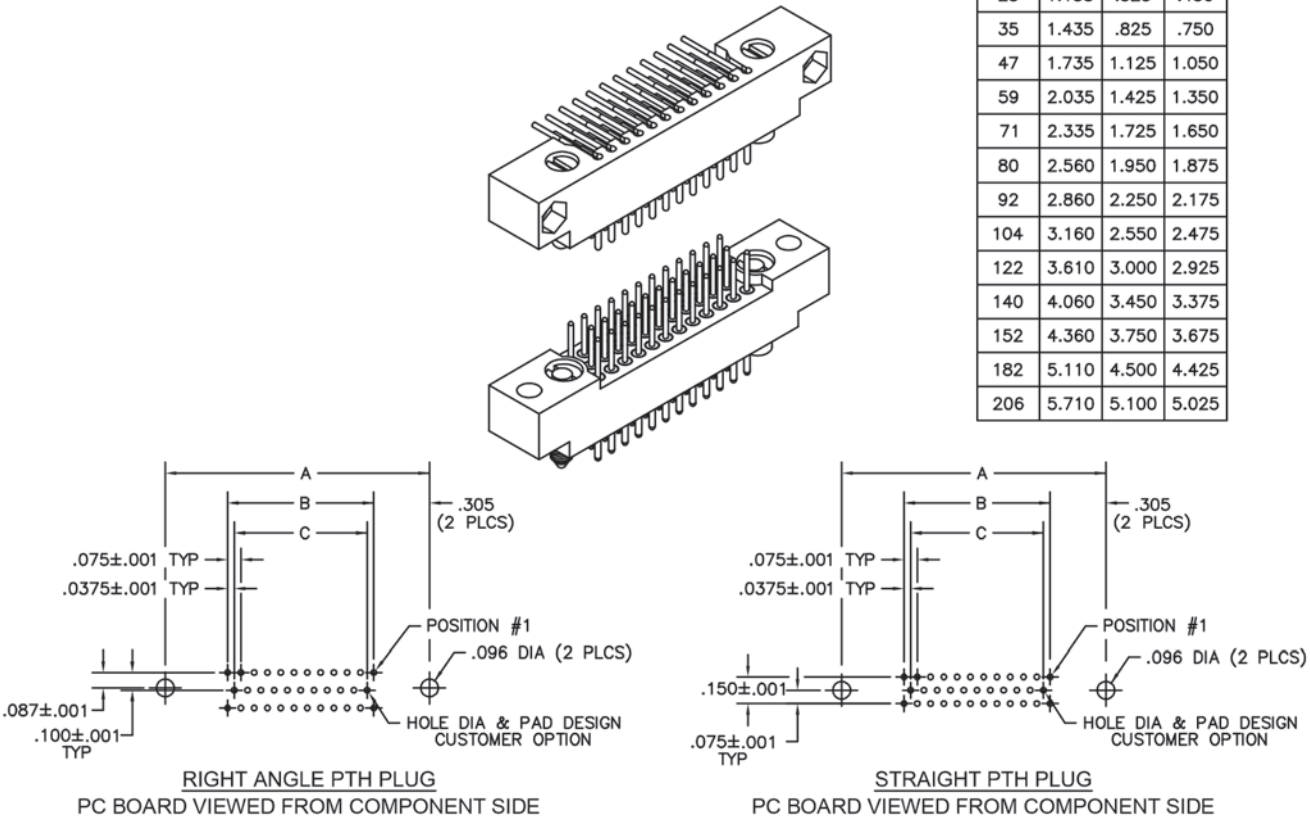
DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875

DIMENSIONS						
SIZE	A	B	C	D	E	F
92	2.690	2.500	3.030	2.860	2.250	2.175
104	2.990	2.800	3.330	3.160	2.550	2.475
122	3.440	3.250	3.780	3.610	3.000	2.925
140	3.890	3.700	4.230	4.060	3.450	3.375
152	4.190	4.000	4.530	4.360	3.750	3.675
182	4.940	4.750	5.280	5.110	4.500	4.425
206	5.540	5.350	5.880	5.710	5.100	5.025

THREE ROW – RIGHT ANGLE PTH PLUG STRAIGHT PTH PLUG

RM3 – RECOMMENDED BOARD LAYOUT 0.075" | 11 THROUGH 206 CONTACTS

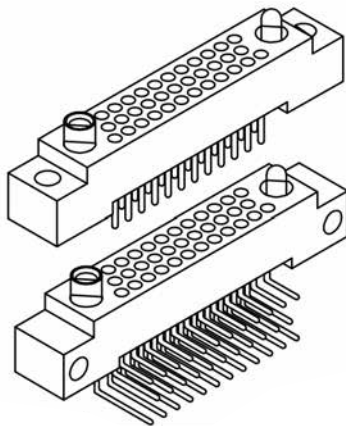
DIMENSIONS			
SIZE	A	B	C
11	.835	.225	.150
23	1.135	.525	.450
35	1.435	.825	.750
47	1.735	1.125	1.050
59	2.035	1.425	1.350
71	2.335	1.725	1.650
80	2.560	1.950	1.875
92	2.860	2.250	2.175
104	3.160	2.550	2.475
122	3.610	3.000	2.925
140	4.060	3.450	3.375
152	4.360	3.750	3.675
182	5.110	4.500	4.425
206	5.710	5.100	5.025



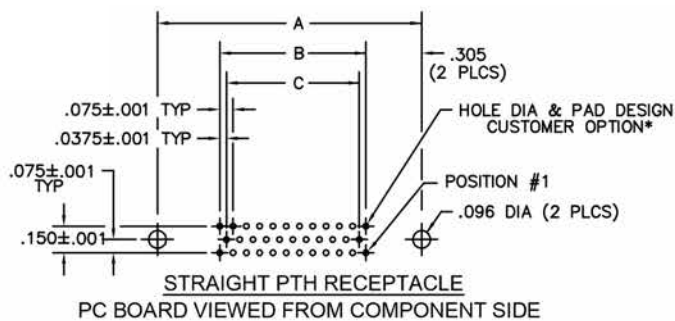
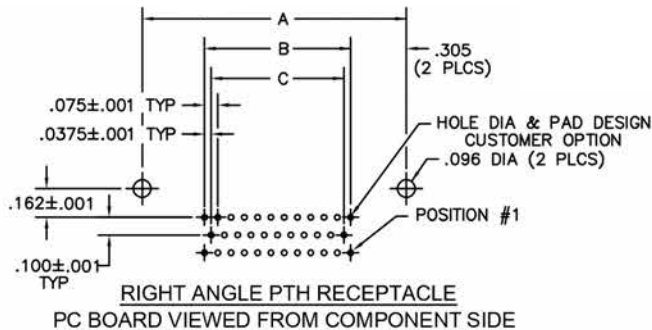
SIZE	CONTACT ID	SIZE	CONTACT ID
11	<div>4 3 2 1</div> <div>7 6 5</div> <div>11 10 9 8</div>	92	<div>31 30 29</div> <div>61 60 59</div> <div>92 91 90</div>
23	<div>8 7 6 5 4 3 2 1</div> <div>15 14 13 12 11 10 9</div> <div>23 22 21 20 19 18 17 16</div>	104	<div>35 34 33</div> <div>69 68 67</div> <div>104 103 102</div>
35	<div>12 11 10</div> <div>23 22 21</div> <div>35 34 33</div>	122	<div>41 40 39</div> <div>81 80 79</div> <div>122 121 120</div>
47	<div>16 15 14</div> <div>31 30 29</div> <div>47 46 45</div>	140	<div>47 46 45</div> <div>93 92 91</div> <div>140 139 138</div>
59	<div>20 19 18</div> <div>39 38 37</div> <div>59 58 57</div>	152	<div>51 50 49</div> <div>101 100 99</div> <div>152 151 150</div>
71	<div>24 23 22</div> <div>47 46 45</div> <div>71 70 69</div>	182	<div>61 60 59</div> <div>121 120 119</div> <div>182 181 180</div>
80	<div>27 26 25</div> <div>53 52 51</div> <div>80 79 78</div>	206	<div>69 68 67</div> <div>137 136 135</div> <div>206 205 204</div>

THREE ROW – RIGHT ANGLE PTH RCPT STRAIGHT PTH RCPT

RM3 – RECOMMENDED BOARD LAYOUT
0.075" | 11 THROUGH 206 CONTACTS



DIMENSIONS			
SIZE	A	B	C
11	.835	.225	.150
23	1.135	.525	.450
35	1.435	.825	.750
47	1.735	1.125	1.050
59	2.035	1.425	1.350
71	2.335	1.725	1.650
80	2.560	1.950	1.875
92	2.860	2.250	2.175
104	3.160	2.550	2.475
122	3.610	3.000	2.925
140	4.060	3.450	3.375
152	4.360	3.750	3.675
182	5.110	4.500	4.425
206	5.710	5.100	5.025

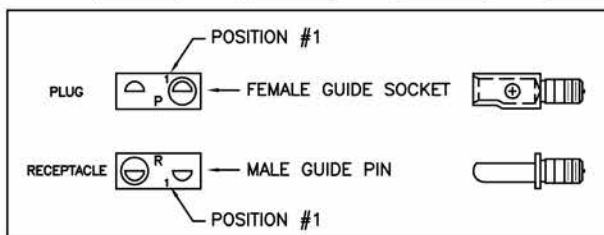
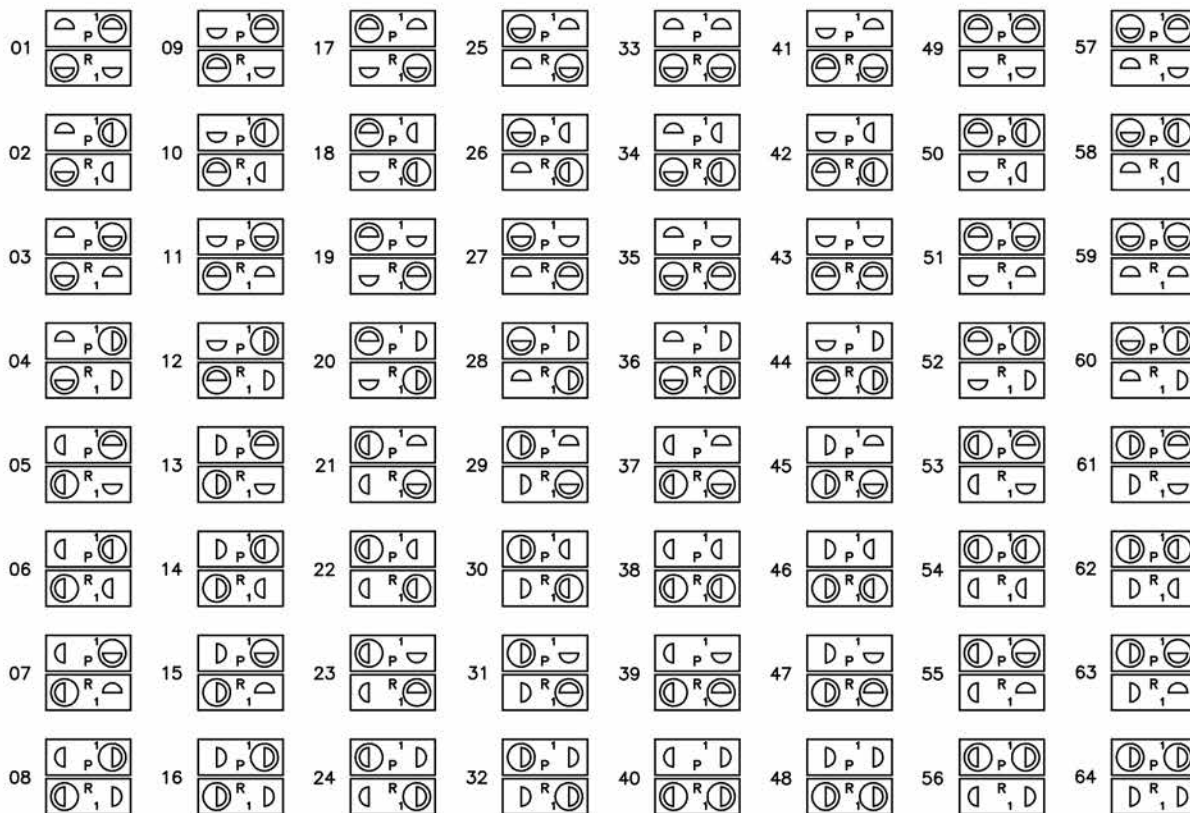


*COMPLIANT TERMINATIONS PCB REQUIREMENTS:
Board Material: FR-4 w/ 1.0 oz. copper
Minimum nominal board thickness: .062"
Drilled hole: .0319"-.0339"
Copper plating thickness: .0010" minimum
Tin-lead plating thickness: .0006" maximum
Electroplated tin-lead composition: 63/37
(Sn/Pb) Finished hole diameter: .028±.002"

SIZE	CONTACT ID	SIZE	CONTACT ID
11	<div>11 10 9 8 7 6 5 4 3 2 1</div>	92	<div>92 91 90 64 63 62 61 60 59 34 33 32 31 30 29 3 2 1</div>
23	<div>23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</div>	104	<div>104 103 102 72 71 70 69 68 67 38 37 36 35 34 33 3 2 1</div>
35	<div>35 34 33 26 25 24 23 22 21 15 14 13 12 11 10 3 2 1</div>	122	<div>122 121 120 84 83 82 81 80 79 44 43 42 41 40 39 3 2 1</div>
47	<div>47 46 45 34 33 32 31 30 29 19 18 17 16 15 14 3 2 1</div>	140	<div>140 139 138 96 95 94 93 92 91 50 49 48 47 46 45 3 2 1</div>
59	<div>59 58 57 42 41 40 39 38 37 23 22 21 20 19 18 3 2 1</div>	152	<div>152 151 150 104 103 102 101 100 99 54 53 52 51 50 49 3 2 1</div>
71	<div>71 70 69 50 49 48 47 46 45 27 26 25 24 23 22 3 2 1</div>	182	<div>182 181 180 124 123 122 121 120 119 64 63 62 61 60 59 3 2 1</div>
80	<div>80 79 78 56 55 54 53 52 51 30 29 28 27 26 25 3 2 1</div>	206	<div>206 205 204 140 139 138 137 136 135 72 71 70 69 68 67 3 2 1</div>

POLARIZATION TWO & THREE ROW

D-Shaped Guide Sets



For optimum safety, use polarization number 01-06-11-16-17-22-27 or 32 when possible. These positions will exclude entry or guide pins at both ends of connectors when an attempt is made to mate incorrectly.

Select the appropriate two digit number above and include as the last two digits of the hardware code in the part number.

Example:

Plug RM252-100-311-5501

Receptacle RM222-100-211-5501

To order polarization guide set only, see catalog page R-47. This set consists of one "D-shaped" guide pin, one "D-shaped" guide socket and two spanner nuts (#2-56 UNC thread).

To change polarization position of guide sets, order spanner nut wrench, part number TN-1680.

UNIVERSAL TEST CONNECTORS

The following test guide sets are designed to mate with any of several connectors having different polarization positions. Note that the square guide pin in test connector will enter the D-shaped socket in any of the four positions in which it may be installed. Likewise, the round guide socket in test connector will fit the D-shaped pin in any position.

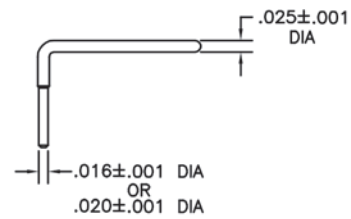
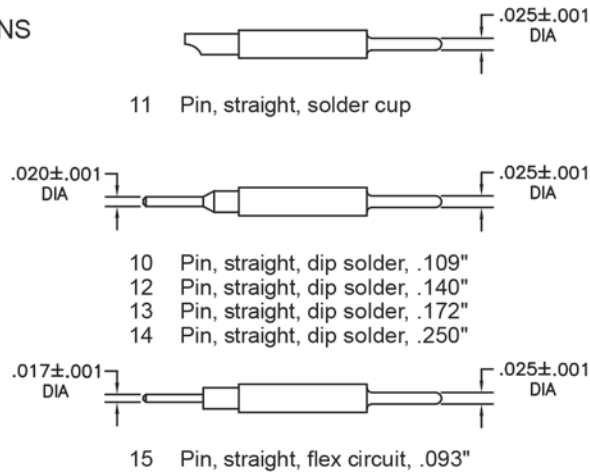
5565 CD8783		For positions 5501 thru 5516
5566 CD8783		For positions 5517 thru 5532
5567P CD8784		For positions 5533 thru 5548
5567R CD7743		For positions 5533 thru 5548
5568P CD7743		For positions 5549 thru 5564
5568R CD8784		For positions 5549 thru 5564

Hardware type shown above catalog order number.

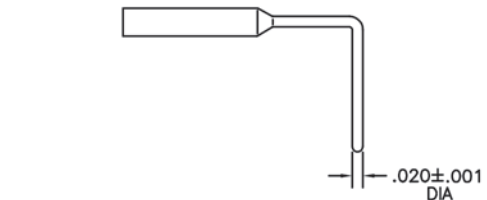
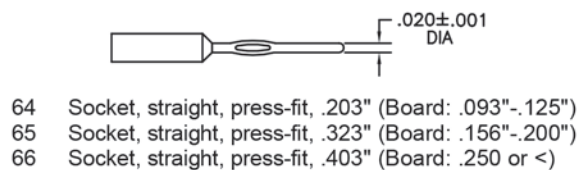
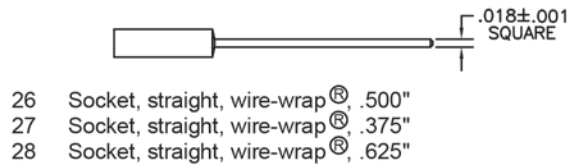
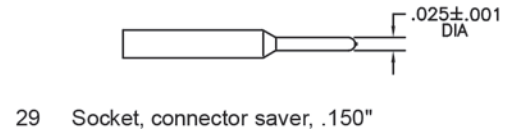
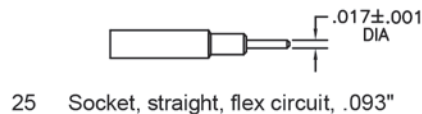
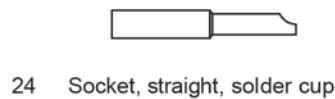
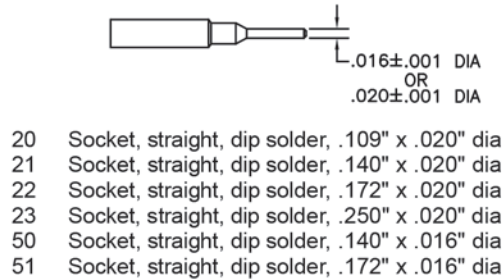
CONTACTS TWO & THREE ROW

Pins and Sockets

PINS



SOCKETS



MILITARY CROSS REFERENCE CHART

M55302/190, 191, 192, 193

Rows	Series & Body Type	Number of Contacts	Type of Terminal	Hardware
2	M55302/190L RM222	Sockets 10, 20, 30, 40, 50, 60, 70, 80, 90, 100	A = 241 B = 201 C = 211	X = 5500 Y = 5501 F = 2900
3	M55302/192L RM322	Sockets 122 152	D = 221 E = 251 F = 271 G = 261 H = 281	S = 5900 N = 7600 L = 5100 M = 6400
2	M55302/191 RM252	Pins 10, 20, 30, 40, 50, 60, 70, 80, 90, 100	A = 311 B = 321 C = 331	X = 5500 Y = 5501 F = 2900 S = 5900
3	M55302/193 RM352	Pins 122 152	A = 311 B = 321 C = 331	N = 7600 L = 5100 M = 6400

Terminal Description Refer 190L, 192L

A = Solder cup
B = Dip terminal, .109" long
C = Dip terminal, .140" long
D = Dip terminal, .172" long
E = Flex circuit, .093" long
F = Wire wrap®, .375" long
G = Wire wrap®, .500 long

Hardware Description Refer 190L, 192L, 191, 193

Type X = Full round
Type Y = "D-shaped"
Type F = Fixed jackset
Type S = Short turning hex jackset
Type N = Turning hex jackset
Type L = Turning slotted jackset
Type M = Short turning slotted jackset

Refer 191, 193

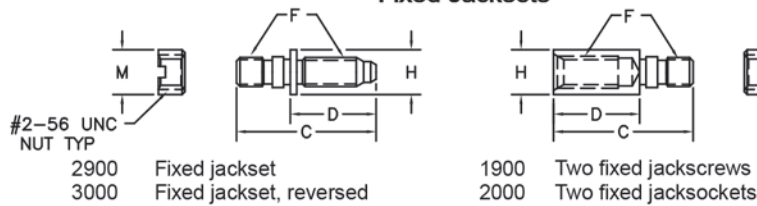
A = Dip terminal, .109" long
B = Dip terminal, .140" long
C = Dip terminal, .172" long

Examples: Mating Pair

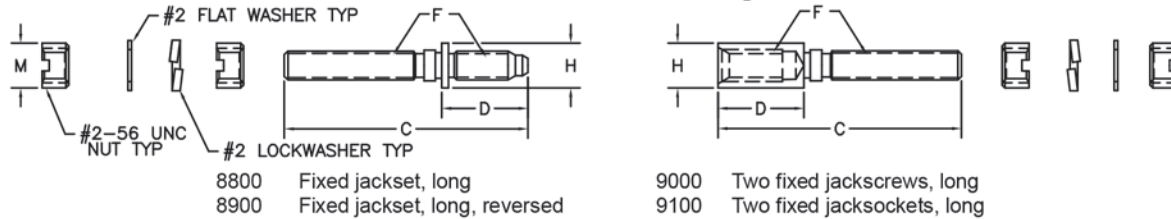
Military AirBorn	M55302/190LC100X RM222-100-211-5500	Two row receptacle, .100 socket contacts with dip terminal, .140" long in a straight thru housing with mounting ears and full round guide set.
Military AirBorn	M55302/191A100X RM252-100-311-5500	Two row plug, 100 pin contacts with dip terminals, .109" long in a right angle housing with mounting ears and full round guide set.

#2-56 JACKSETS

Fixed Jacksets

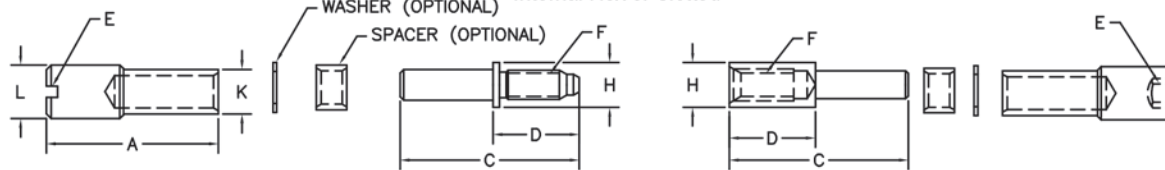


Fixed Jacksets, Long



Turning Jacksets

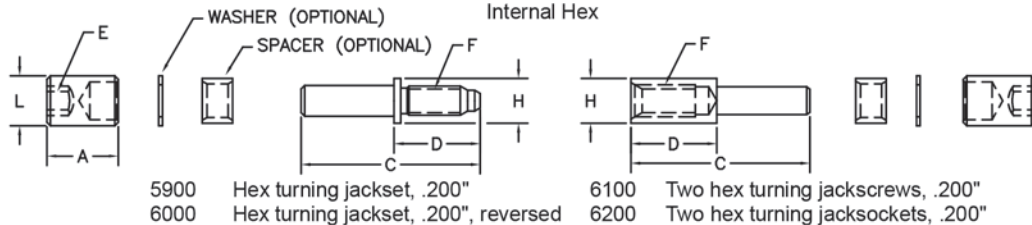
Internal Hex or Slotted



5100	Turning jackset, .700"	7200	Hex turning jackset, .490"
5200	Turning jackset, .700", reversed	7300	Hex turning jackset, .490", reversed
5300	Two turning jackscrews, .700"	7400	Two hex turning jackscrews, .490"
5400	Two turning jacksockets, .700"	7500	Two hex turning jacksockets, .490"
6400	Turning jackset, .490"	7600	Hex turning jackset, .545"
6500	Turning jackset, .490", reversed	7700	Hex turning jackset, .545", reversed
6600	Two turning jackscrews, .490"	7800	Two hex turning jackscrews, .545"
6700	Two turning jacksockets, .490"	7900	Two hex turning jacksockets, .545"
6800	Turning jackset, .545"	8000	Hex turning jackset, .700"
6900	Turning jackset, .545", reversed	8100	Hex turning jackset, .700", reversed
7000	Two turning jackscrews, .545"	8200	Two hex turning jackscrews, .700"
7100	Two turning jacksockets, .545"	8300	Two hex turning jacksockets, .700"

Low Profile Jacksets

Internal Hex



Hardware Only

HARDWARE TYPE	PART NUMBER
1900	RM000-000-000-1900
2000	RM000-000-000-2000
2900 or 3000	RM000-000-000-2900 (or -3000)
5100 or 5200	RM000-000-000-5100 (or -5200)
5300	RM000-000-000-5300
5400	RM000-000-000-5400
5900 or 6000	RM000-000-000-5900 (or -6000)
6100	RM000-000-000-6100
6200	RM000-000-000-6200
6400 or 6500	RM000-000-000-6400 (or -6500)
6600	RM000-000-000-6600
6700	RM000-000-000-6700

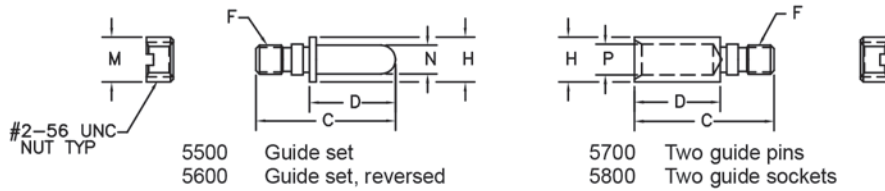
HARDWARE TYPE	PART NUMBER
6800 or 6900	RM000-000-000-6800 (or -6900)
7000	RM000-000-000-7000
7100	RM000-000-000-7100
7200 or 7300	RM000-000-000-7200 (or -7300)
7400	RM000-000-000-7400
7500	RM000-000-000-7500
7600 or 7700	RM000-000-000-7600 (or -7700)
7800	RM000-000-000-7800
7900	RM000-000-000-7900
8000 or 8100	RM000-000-000-8000 (or -8100)
8200	RM000-000-000-8200
8300	RM000-000-000-8300

Notes:

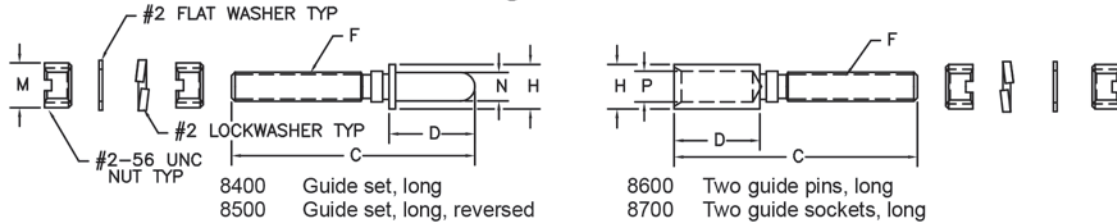
- For spanner nut wrench, order part number TN1680 (refer to page WA-9 in W-Series Catalog).
- When installing fixed jacksets, apply Loctite® to threads.

GUIDE SETS

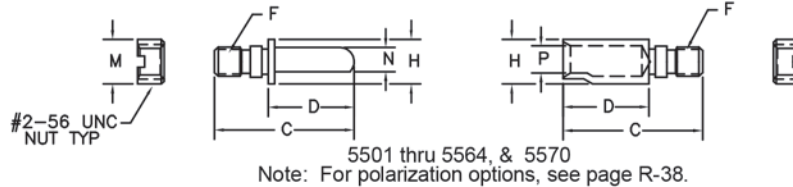
Guide Sets



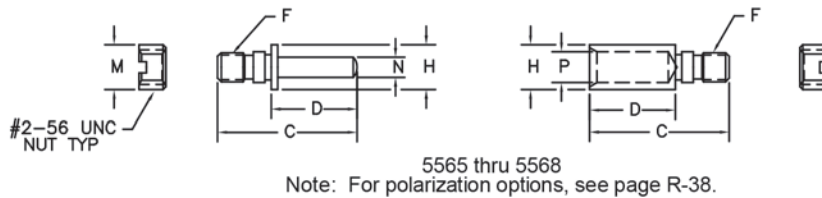
Long Guide Sets



Polarized Guide Sets



Universal Test Guide Sets



DIMENSIONS											
HARDWARE TYPE	A	C	D	E	F	H	K	L	M	N	P
1900/2000/2900/3000	—	.390	.240	—	#2-56 UNC TH'D	.125 DIA	—	—	.125 DIA	—	—
5100 THRU 5400	.700	.750		.031 x .031 SLOT			.125 DIA	.156 DIA	—	—	—
5500 THRU 5800	—	—		—			—	—	—	.080 DIA	.088 DIA
5501 THRU 5564	—	.390		—			—	—	.125 DIA	.068	.076
5565 THRU 5568	—	—		—			—	—	—	.056 SQ	.088 DIA
5900 THRU 6200	.200	.500		5/64 INT HEX			—	.140 DIA	—	—	—
6400 THRU 6700	.490	—		.031 x .031 SLOT			.125 DIA	.156 DIA	—	—	—
6800 THRU 7100	.545	—		—					—	—	—
7200 THRU 7500	.490	.750		5/64 INTERNAL HEX					—	—	—
7600 THRU 7900	.545	—		—					—	—	—
8000 THRU 8300	.700	—		—			—	—	—	—	—
8400 THRU 8700	—	—		—			—	—	.125 DIA	.080 DIA	.088 DIA
8800 THRU 9100	—	.680		—			—	—	—	—	—

Hardware Only

HARDWARE TYPE	PART NUMBER
5500 or 5600	RM000-000-000-5500 (or -5600)
5501 - 5532	RM000-000-000-5501 (thru -5532)
5533 - 5548	RM000-000-000-5533 (thru -5548)
5549 - 5564	RM000-000-000-5549 (thru -5564)
5565 or 5566	RM000-000-000-5565 (or -5566)
5568	RM000-000-000-5568
5567	RM000-000-000-5567

HARDWARE TYPE	PART NUMBER
5570	RM000-000-000-5570
5700	RM000-000-000-5700
5800	RM000-000-000-5800
8400 or 8500	RM000-000-000-8400 (or -8500)
8600	RM000-000-000-8600
8700	RM000-000-000-8700

To order connector without hardware, place "-0256" in hardware designation area of catalog number

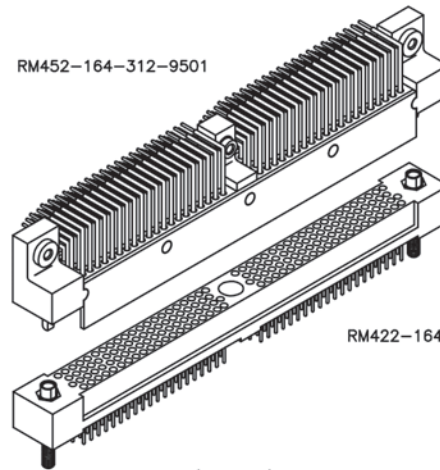
Example: RM322-152-221-0256

FOUR ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

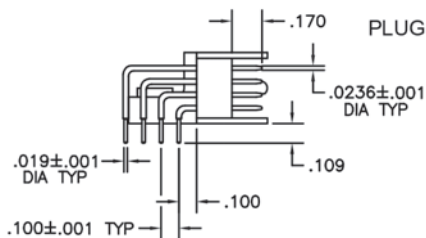
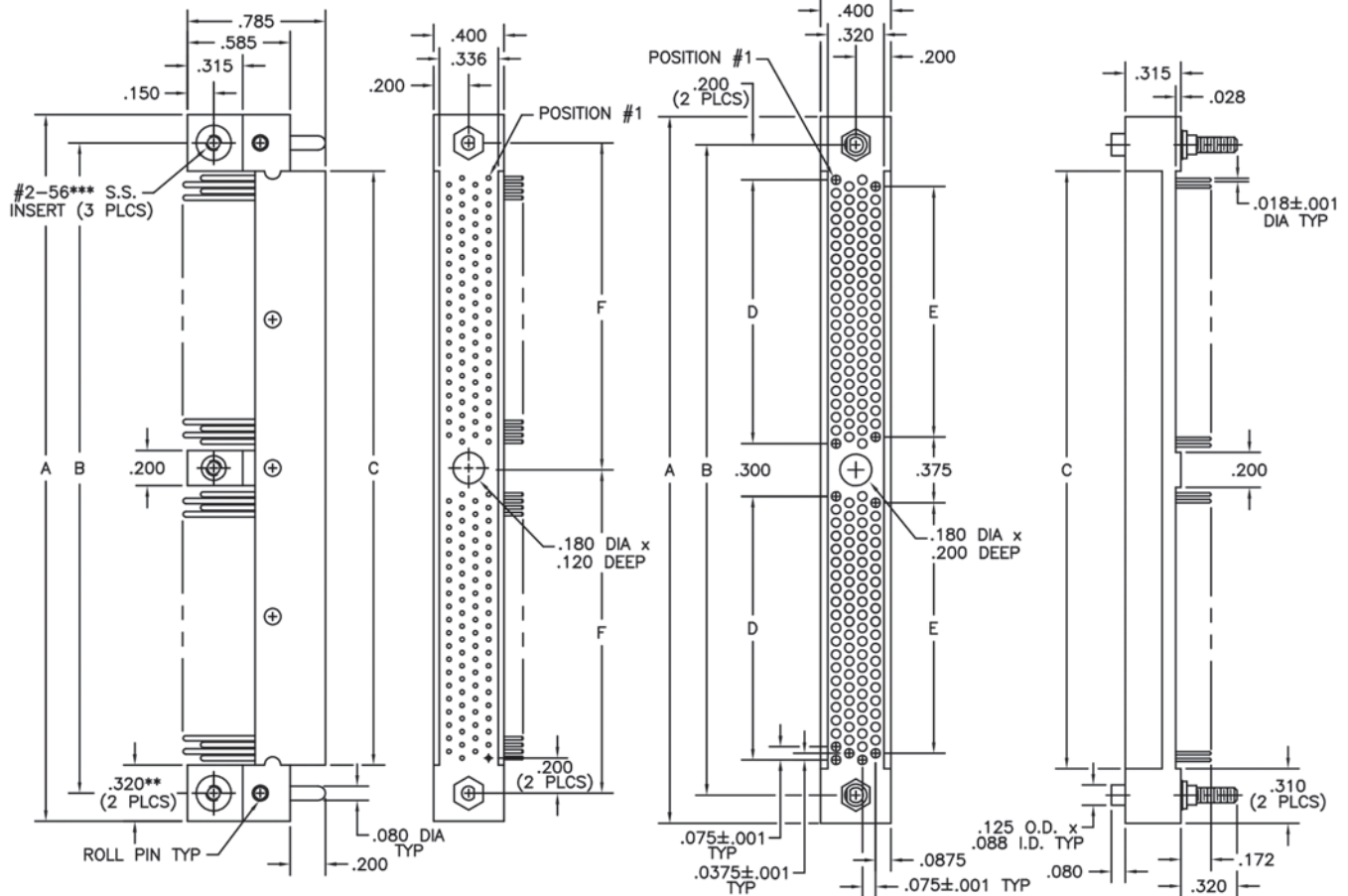
RM4

0.075" | 86 THROUGH 404 CONTACTS

RM452-164-312-9501



RM422-164-832-9601



NOTES:

* = Single section, no center mounting hole

** = .280" for 86 position

*** = #4-40 for 404 position

RECEPTACLE

SIZE	DIMENSIONS							
	PLUG	RCPT	B	PLUG	RCPT	D	E	F
86*	2.255	2.295	1.975	1.655	1.675	1.575	1.500	—
110*	2.745	2.745	2.425	2.105	2.125	2.025	1.950	—
164	4.020	4.020	3.700	3.380	3.400	1.500	1.425	1.850
196	4.620	4.620	4.300	3.980	4.000	1.800	1.725	2.150
204	4.770	4.770	4.450	4.130	4.150	1.875	1.800	2.225
220	5.070	5.070	4.750	4.430	4.450	2.025	1.950	2.375
250*	5.370	5.370	5.050	4.730	4.750	4.650	4.575	—
276	6.120	6.120	5.800	5.480	5.500	2.550	2.475	2.900
300	6.570	6.570	6.250	5.930	5.950	2.775	2.700	3.125
404	8.520	8.520	8.200	7.880	7.900	3.750	3.675	4.100

LEAD CONFIGURATION OPTIONS

PLUG: RM452-164-312-9501
 RECEPTACLE: RM422-164-832-9601
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

4	4-Row	4	4-Row
BODY STYLE:		BODY STYLE:	
5	Plug, right angle, with mounting ears	2	Receptacle, straight, without mounting ears
BODY MATERIAL:		BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)

SIZE

086, 110, 164, 196, 204, 220, 250, 276, 300, 404 | 086, 110, 164, 196, 204, 220, 250, 276, 300, 404

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
31	Pin, right angle, dip solder, .109" x .019" dia	75	Socket, straight, dip solder, .250" x .018" dia
32	Pin, right angle, dip solder, .140" x .019" dia	76	Socket, straight, solder cup
33	Pin, right angle, dip solder, .172" x .019" dia	77	Socket, straight, flex, .093" x .017" dia
34	Pin, right angle, dip solder, .250" x .019" dia	78	Socket, straight, wire wrap [®] , .500" x .018" sq
		79	Socket, straight, wire wrap [®] , .375" x .018" sq
		81	Socket, straight, dip solder, .109" x .018" dia
		82	Socket, straight, dip solder, .140" x .018" dia
		83	Socket, straight, dip solder, .172" x .018" dia
		87	Socket, straight, press-fit, .188" (Board: .093" - .125" thk)
		88	Socket, straight, press-fit, .308" (Board: .156" - .200" thk)
		89	Socket, straight, press-fit, .388" (Board: .250"+ thk)
PLATING OPTIONS:		PLATING OPTIONS:	
1	Gold plated termination	1	Gold plated termination
2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	2	Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>
3	Pre-tinned termination, SAC305 alloy	3	Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE

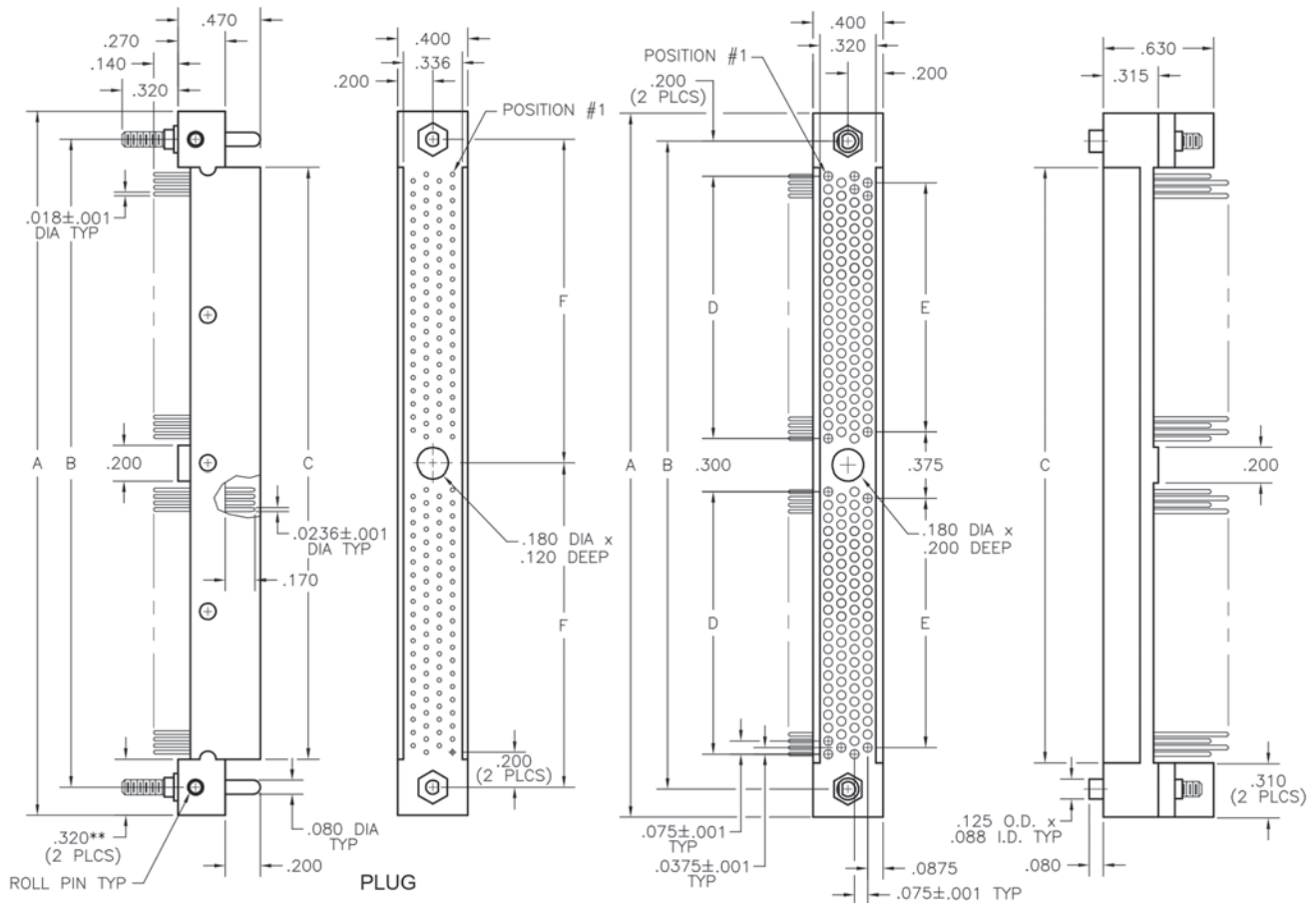
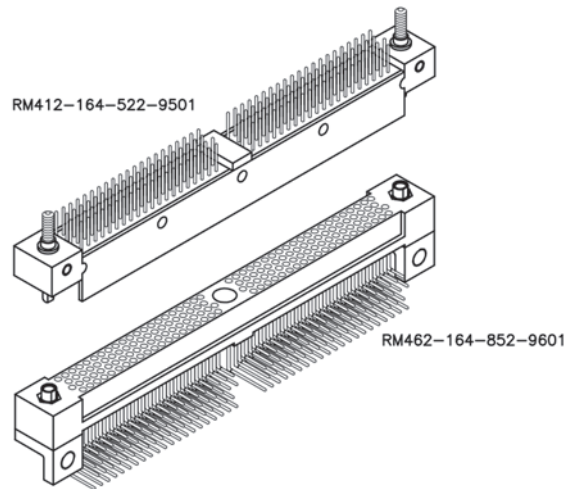
STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	None	0256	None
83	Fixed jackset, reversed, installed	82	Hex turning jackset, reversed, installed, .200 knob
90	Guide pins, full round, installed	83	Fixed jackset, reversed, installed, #2-56 x .247" thd ext
93	Fixed jackset, installed	84	Fixed jackset, reversed, installed, #2-56 x .320" thd ext
95	Guide pins, polarized, unassembled	91	Guide sockets, full round, installed, #2-56 x .247" thd ext
9501 - 9536	Guide pins, polarized, installed	92	Hex turning jackset, installed, .200 knob
99	Guide pins, universal, installed	93	Fixed jackset, installed, #2-56 x .247" thd ext
		94	Fixed jackset, installed, #2-56 x .320" thd ext
		96	Guide sockets, polarized, unassembled, #2-56 x .320" thd ext
		9601 - 9636	Guide sockets, polarized, installed, #2-56 x .320" thd ext
		97	Guide sockets, polarized, unassembled, #2-56 x .247" thd ext
		9701 - 9736	Guide sockets, polarized, installed, #2-56 x .247" thd ext
		98	Guide sockets, universal, installed, #2-56 x .247" thd ext
POLARIZATION:		POLARIZATION	
00	None	00	None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

☒ = Option not RoHS compliant

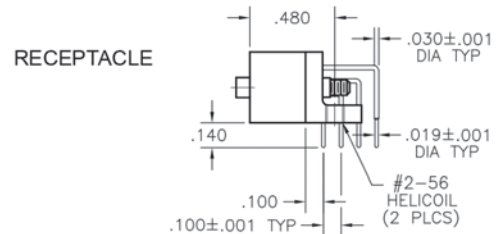
FOUR ROW – MOTHERBOARD- OR CHASSIS-TO-DAUGHTERBOARD

RM4

0.075" | 86 THROUGH 404 CONTACTS



SIZE	DIMENSIONS						F
	PLUG	RCPT	B	PLUG	RCPT	D	
86*	2.255	2.295	1.975	1.655	1.675	1.575	1.500
110*	2.745	2.745	2.425	2.105	2.125	2.025	1.950
164	4.020	4.020	3.700	3.380	3.400	1.500	1.425
196	4.620	4.620	4.300	3.980	4.000	1.800	1.725
204	4.770	4.770	4.450	4.130	4.150	1.875	1.800
220	5.070	5.070	4.750	4.430	4.450	2.025	1.950
250*	5.370	5.370	5.050	4.730	4.750	4.650	4.575
276	6.120	6.120	5.800	5.480	5.500	2.550	2.475
300	6.570	6.570	6.250	5.930	5.950	2.775	2.700
404	8.520	8.520	8.200	7.880	7.900	3.750	3.675



NOTES:

- * = Single section, no center mounting hole
- ** = .280" for 86 position

LEAD CONFIGURATION OPTIONS

PLUG: RM412-164-522-9501
 RECEPTACLE: RM462-164-852-9601
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

4	4-Row	4	4-Row
1	BODY STYLE: Plug, straight, without mounting ears	6	BODY STYLE: Receptacle, right angle, with metal mount brackets
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)

SIZE

086, 110, 164, 196, 204, 220, 250, 276, 300, 404 | 086, 110, 164, 196, 204, 220, 250, 276, 300, 404

CONTACTS

TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
17 Pin, straight, solder cup	84 Socket, right angle, dip solder, .109" x .019" dia
40 Pin, straight, flex .093" x .017" dia	85 Socket, right angle, dip solder, .140" x .019" dia
51 Pin, straight, dip solder, .109" x .018" dia	86 Socket, right angle, dip solder, .172" x .019" dia
52 Pin, straight, dip solder, .140" x .018" dia	
53 Pin, straight, dip solder, .172" x .018" dia	
54 Pin, straight, dip solder, .250" x .018" dia	

PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	1 Gold plated termination
2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>
3 Pre-tinned termination, SAC305 alloy (dip solder options only)	3 Pre-tinned termination, SAC305 alloy

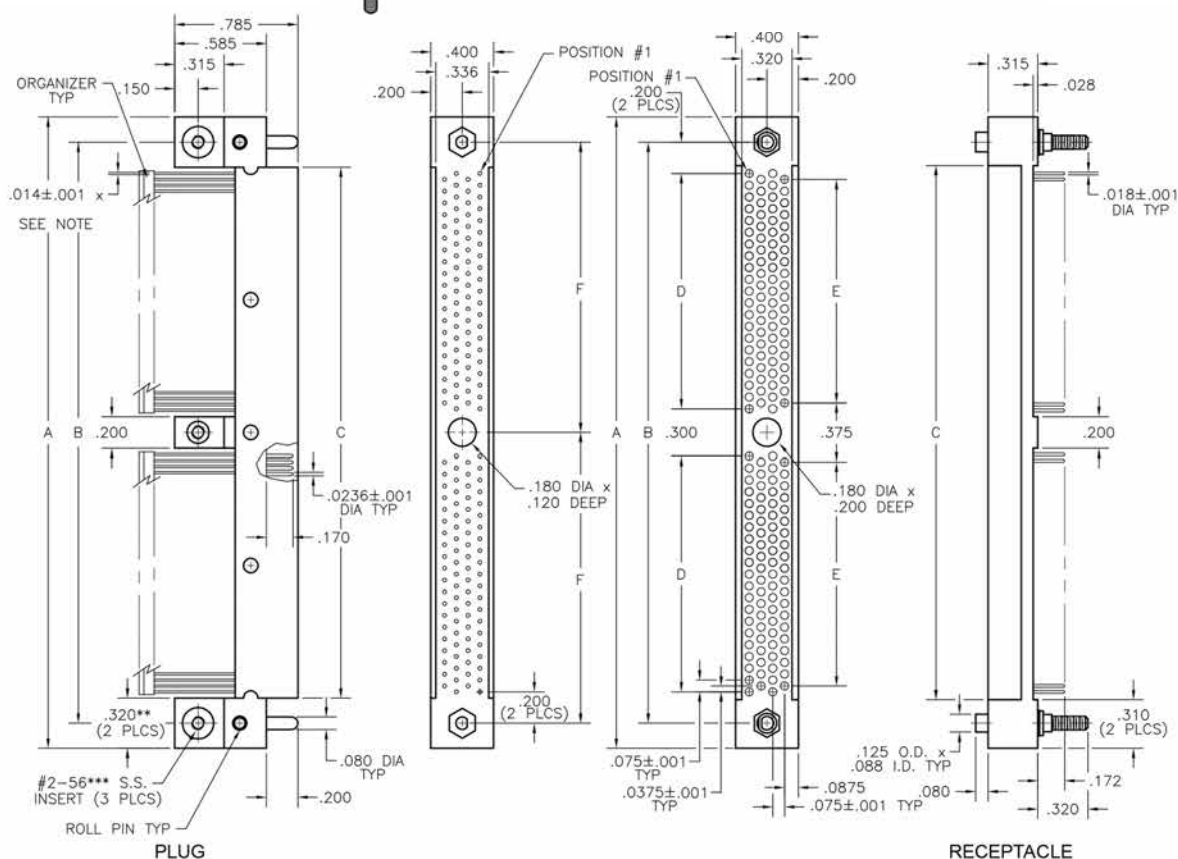
HARDWARE

STYLE OF HARDWARE:	STYLE OF HARDWARE:
0256 None	0256 None
82 Hex turning jackset, reversed, installed, .200 knob	82 Hex turning jackset, reversed, installed, .200 knob
83 Fixed jackset, reversed, installed, #2-56 x .247" thd ext	83 Fixed jackset, reversed, installed
84 Fixed jackset, reversed, installed, #2-56 x .320" thd ext	91 Guide sockets, full round, installed
90 Guide pins, full round, installed, #2-56 x .320" thd ext	92 Hex turning jackset, installed, .200 knob
92 Hex turning jackset, installed, .200 knob	93 Fixed jackset, installed
93 Fixed jackset, installed, #2-56 x .247" thd ext	96 Guide sockets, polarized, unassembled
94 Fixed jackset, installed, #2-56 x .320" thd ext	9601 - 9636 Guide sockets, polarized, installed
95 Guide pins, polarized, unassembled, #2-56 x .320" thd ext	97 Guide sockets, polarized, unassembled
9501 - 9536 Guide pins, polarized, installed, #2-56 x .320" thd ext	9701 - 9736 Guide sockets, polarized, installed
99 Guide pins, universal, installed #2-56 x .320" thd ext	98 Guide sockets, universal, installed
POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 36 are special identifiers, see page R-62	01 thru 36 are special identifiers, see page R-62

Note: Includes mounting bracket when right angle contacts are supplied

☒ = Option not RoHS compliant

RM4
0.075" | 86 THROUGH 404 CONTACTS



DIMENSIONS								
SIZE	A		B	C		D	E	F
	PLUG	RCPT		PLUG	RCPT			
86*	2.255	2.295	1.975	1.655	1.675	1.575	1.500	—
110*	2.745	2.745	2.425	2.105	2.125	2.025	1.950	—
164	4.020	4.020	3.700	3.380	3.400	1.500	1.425	1.850
196	4.620	4.620	4.300	3.980	4.000	1.800	1.725	2.150
204	4.770	4.770	4.450	4.130	4.150	1.875	1.800	2.225
220	5.070	5.070	4.750	4.430	4.450	2.025	1.950	2.375
250*	5.370	5.370	5.050	4.730	4.750	4.650	4.575	—
276	6.120	6.120	5.800	5.480	5.500	2.550	2.475	2.900
300	6.570	6.570	6.250	5.930	5.950	2.775	2.700	3.125
404	8.520	8.520	8.200	7.880	7.900	3.750	3.675	4.100

NOTES:
 * = Single section, no center mounting hole.
 ** = .280" for 86 position
 *** = Insert is #4-40 for size 404.

Refer to SMT Configuration Chart (R-56) for available options.

LEAD CONFIGURATION OPTIONS

PLUG: RM412-164-192-9501-933
 RECEPTACLE: RM422-164-832-9601
 XXXXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
4 4-Row	4 4-Row

1 BODY STYLE: Plug, straight, with mounting ears	2 BODY STYLE: Receptacle, straight, without mounting ears
2 BODY MATERIAL: Polyphenylene sulfide (PPS)	2 BODY MATERIAL: Polyphenylene sulfide (PPS)

SIZE	
086, 110, 164, 196, 204, 220, 250, 276, 300, 404	086, 110, 164, 196, 204, 220, 250, 276, 300, 404

CONTACTS	
----------	--

TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
19 Pin, SMT, .014" x .007" tail, scored for organizer removal (see R-56)	75 Socket, straight, dip solder, .250" x .018" dia
39 Pin, SMT, .014" x .007" tail, unscored	76 Socket, straight, solder cup
	77 Socket, straight, flex, .093" x .017" dia
	78 Socket, straight, wire wrap [®] , .500" x .018" sq
	79 Socket, straight, wire wrap [®] , .375" x .018" sq
	81 Socket, straight, dip solder, .109" x .018" dia
	82 Socket, straight, dip solder, .140" x .018" dia
	83 Socket, straight, dip solder, .172" x .018" dia
	87 Socket, straight, press-fit, .188" (Board: .093" - .125" thk)
	88 Socket, straight, press-fit, .308" (Board: .156" - .200" thk)
	89 Socket, straight, press-fit, .388" (Board: .250"+ thk)

PLATING OPTIONS:	PLATING OPTIONS:
2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	1 Gold plated termination
3 Pre-tinned termination, SAC305 alloy	2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>
	3 Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE	
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STYLE OF HARDWARE:	STYLE OF HARDWARE:
0256 None	0256 None
83 Fixed jackset, reversed, installed	82 Hex turning jackset, reversed, installed, .200 knob
90 Guide pins, full round, installed	83 Fixed jackset, reversed, installed, #2-56 x .247" thd ext
93 Fixed jackset, installed	84 Fixed jackset, reversed, installed, #2-56 x .320" thd ext
95 Guide pins, polarized, unassembled	91 Guide sockets, full round, installed, #2-56 x .247" thd ext
9501 - 9536 Guide pins, polarized, installed	92 Hex turning jackset, installed, .200 knob
99 Guide pins, universal, installed	93 Fixed jackset, installed, #2-56 x .247" thd ext
	94 Fixed jackset, installed, #2-56 x .320" thd ext
	96 Guide sockets, polarized, unassembled, #2-56 x .320" thd ext
	9601 - 9636 Guide sockets, polarized, installed, #2-56 x .320" thd ext
	97 Guide sockets, polarized, unassembled, #2-56 x .247" thd ext
	9701 - 9736 Guide sockets, polarized, installed, #2-56 x .247" thd ext
	98 Guide sockets, universal, installed, #2-56 x .247" thd ext

POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 36 are special identifiers, see page R-62	01 thru 36 are special identifiers, see page R-62

OPTIONS	
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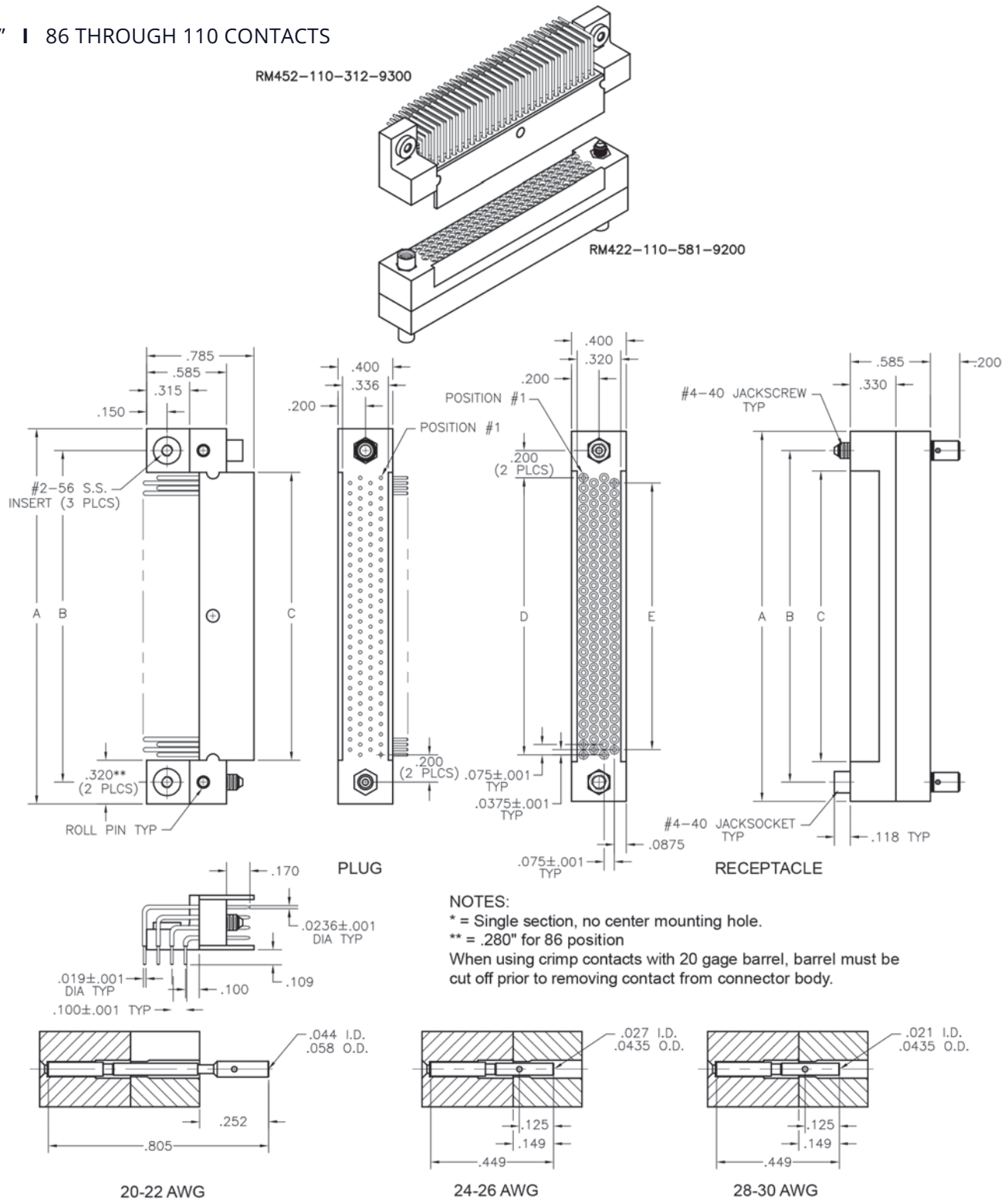
9XX SMT configuration code, see page R-61

☒ = Option not RoHS compliant

FOUR ROW – CABLE- OR BOARD-TO-CRIMP REMOVABLE

RM4

0.075" | 86 THROUGH 110 CONTACTS



CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM400-000-571-0000
24-26 AWG	RM400-000-581-0000
28-30 AWG	RM400-000-591-0000

DIMENSIONS						
SIZE	A	B	C		D	E
			PLUG	RCPT		
86*	2.255	1.975	1.655	1.675	1.575	1.500
110*	2.745	2.425	2.105	2.125	2.025	1.950

LEAD CONFIGURATION OPTIONS

PLUG: RM452-110-312-9300
 RECEPTACLE: RM422-110-581-9200
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

4	4-Row	4	4-Row
BODY STYLE:		BODY STYLE:	
5	Plug, right angle, with mounting ears	2	Receptacle, straight, without mounting ears
BODY MATERIAL:		BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)

SIZE

086, 110 | 086, 110

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
31	Pin, right angle, dip solder, .109" x .019" dia	00	Contacts not supplied
32	Pin, right angle, dip solder, .140" x .019" dia	57	Socket, straight, crimp removable (20-22 AWG)*
33	Pin, right angle, dip solder, .172" x .019" dia	58	Socket, straight, crimp removable (24-26 AWG)*
34	Pin, right angle, dip solder, .250" x .019" dia	59	Socket, straight, crimp removable (28-30 AWG)*
PLATING OPTIONS:		PLATING OPTIONS:	
1	Gold plated termination	0	No plating (use with Contact Option "00" only)
2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	1	Gold plated termination
3	Pre-tinned termination, SAC305 alloy		

HARDWARE

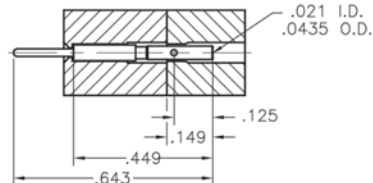
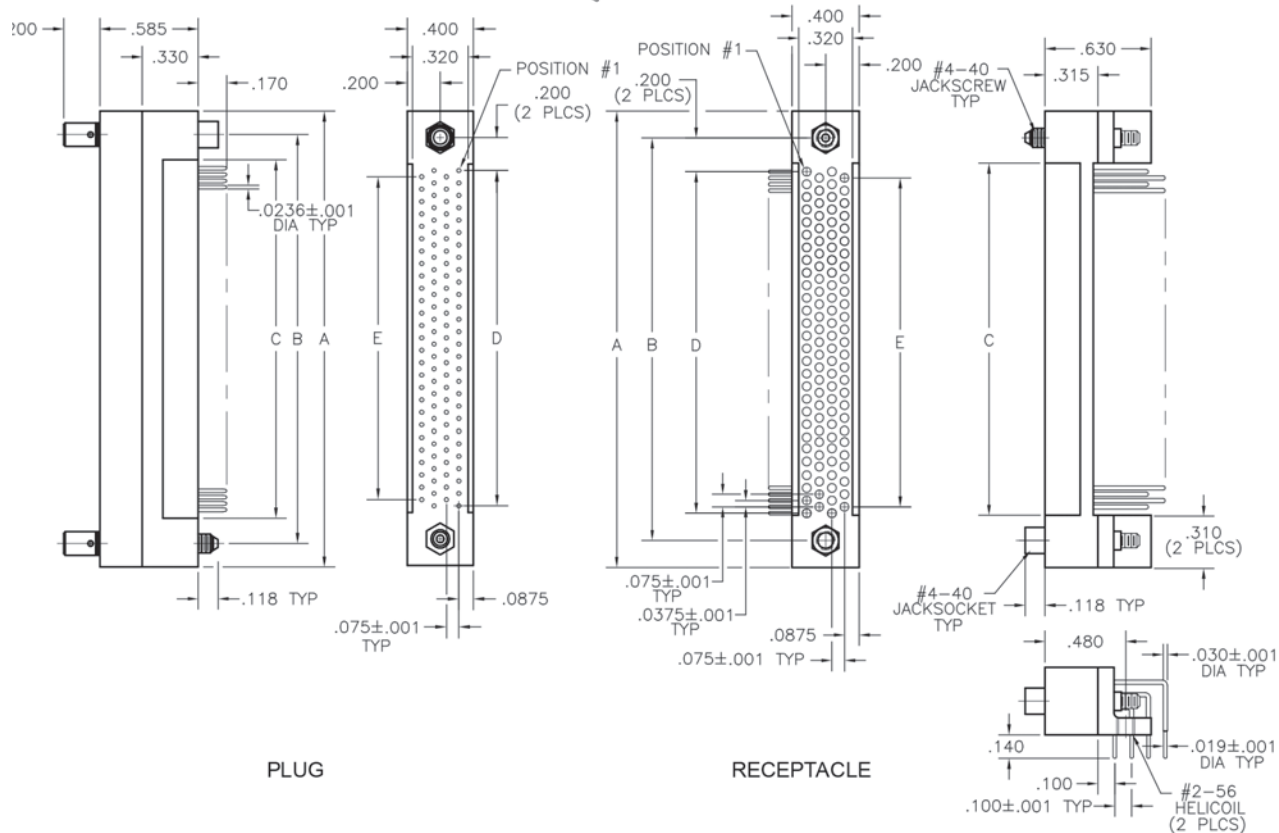
STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	None	0256	None
83	Fixed jackset, reversed, installed	82	Hex turning jackset, reversed, installed, .200 knob
90	Guide pins, full round, installed	91	Guide sockets, full round, installed
93	Fixed jackset, installed	92	Hex turning jackset, installed, .200" knob
95	Guide pins, polarized, unassembled	96	Guide sockets, polarized, unassembled
9501 - 9536	Guide pins, polarized, installed	9601 - 9636	Guide sockets, polarized, installed
99	Guide pins, universal, installed	98	Guide sockets, universal, installed
POLARIZATION:		POLARIZATION	
00	None	00	None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

* Full compliment of crimp removable sockets packaged with connectors

1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG)
CDG4603 (20-22 AWG)
3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
4. Crimp contact part number on previous page.

☒ = Option not RoHS compliant

0.075" | 86 THROUGH 110 CONTACTS



NOTE:
When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

DIMENSIONS						
SIZE	A	B	C		D	E
			PLUG	RCPT		
86	2.255	1.975	1.655	1.675	1.575	1.500
110	2.745	2.425	2.105	2.125	2.025	1.950

LEAD CONFIGURATION OPTIONS

PLUG: RM412-110-271-9200
 RECEPTACLE: RM462-110-852-9300
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
4 4-Row	4 4-Row
BODY STYLE: 1 Plug, straight, without mounting ears	BODY STYLE: 6 Receptacle, right angle, with mounting ears
BODY MATERIAL: 2 Polyphenylene sulfide (PPS)	BODY MATERIAL: 2 Polyphenylene sulfide (PPS)

SIZE	
086, 110	086, 110

CONTACTS	
TYPE CONTACTS/TERMINATIONS: 00 Contacts not supplied 26 Pin, straight, crimp removable (20-22 AWG)* 27 Pin, straight, crimp removable (24-26 AWG)* 28 Pin, straight, crimp removable (28-30 AWG)*	TYPE CONTACTS/TERMINATIONS: 84 Socket, right angle, dip solder, .109" x .019" dia 85 Socket, right angle, dip solder, .140" x .019" dia 86 Socket, right angle, dip solder, .172" x .019" dia
PLATING OPTIONS: 0 No plating (use with Contact Option "00" only) 1 Gold plated termination	PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/> 3 Pre-tinned termination, SAC305 alloy

HARDWARE	
STYLE OF HARDWARE: 0256 None 82 Hex turning jackset, reversed, installed, .200" knob 83 Fixed jackset, reversed, installed, 90 Guide pins, full round, installed 92 Hex turning jackset, installed, .200" knob 93 Fixed jackset, installed 95 Guide pins, polarized, unassembled 9501 - 9536 Guide pins, polarized, installed 99 Guide pins, universal, installed	STYLE OF HARDWARE: 0256 None 82 Hex turning jackset, reversed, installed, .200 knob 83 Fixed jackset, reversed, installed, #2-56 x .247 thd ext 84 Fixed jackset, reversed, installed, #2-56 x .320 thd ext 91 Guide sockets, full round, installed, #2-56 x .247" thd ext 92 Hex turning jackset, installed, .200 knob 93 Fixed jackset, installed, #2-56 x .247" thd ext 94 Fixed jackset, installed, #2-56 x .320" thd ext 96 Guide sockets, polarized, unassembled, #2-56 x .320" thd ext 9601 - 9636 Guide sockets, polarized, installed, #2-56 x .320" thd ext 97 Guide sockets, polarized, unassembled, #2-56 x .247" thd ext 9701 - 9736 Guide sockets, polarized, installed, #2-56 x .247" thd ext 98 Guide sockets, universal, installed, #2-56 x .247" thd ext Note: Includes mounting bracket when right angle contacts are supplied
POLARIZATION: 00 None 01 thru 36 are special identifiers, see page R-62	POLARIZATION 00 None 01 thru 36 are special identifiers, see page R-62

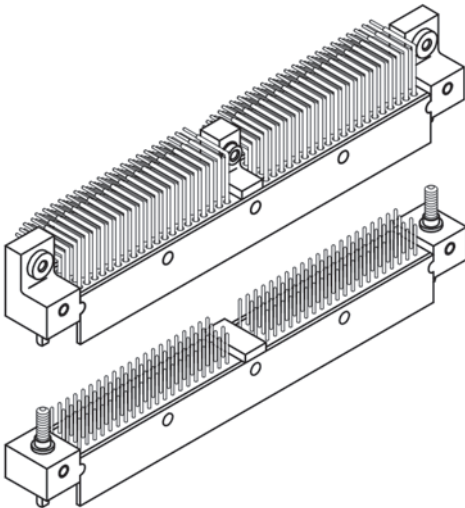
* Full compliment of crimp removable sockets packaged with connectors

1. Crimp tool - AirBorn part number: CDG4601, Mil Spec number M22520/2-01
2. Crimp positioner - AirBorn part number: CDG4602 (24-26 AWG and 28-30 AWG)
CDG4603 (20-22 AWG)
3. Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)
4. Crimp contact part number on previous page.

☒ = Option not RoHS compliant

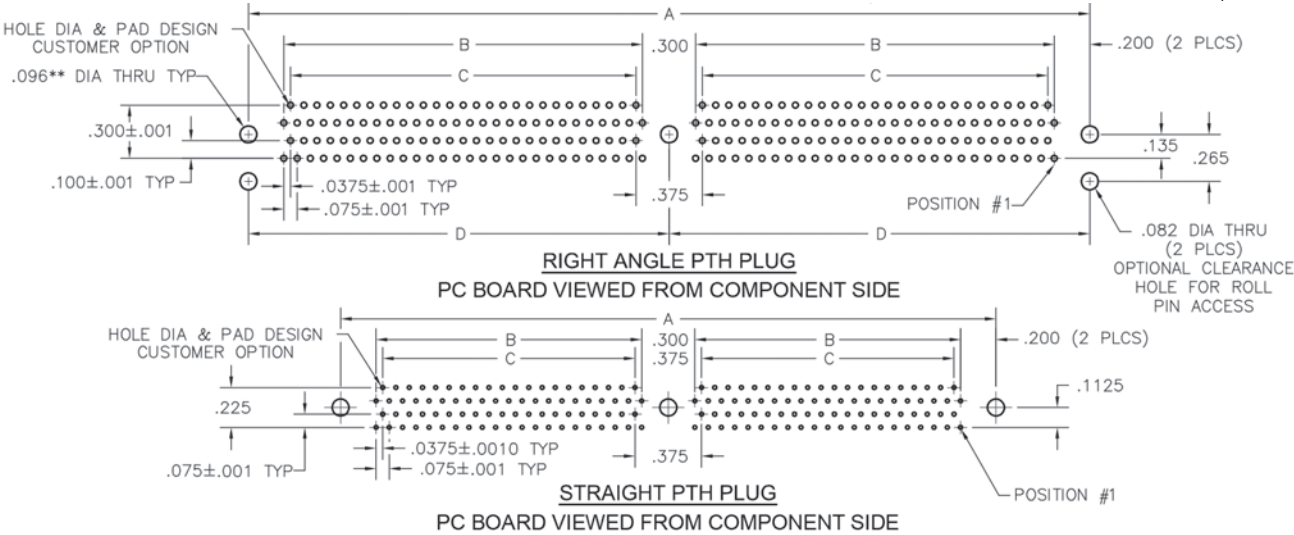
FOUR ROW – RIGHT ANGLE PTH PLUG STRAIGHT PTH PLUG

RM4 – RECOMMENDED BOARD LAYO
0.075" | 86 THROUGH 404 CONTACT



DIMENSIONS				
SIZE	A	B	C	D
86*	1.975	1.575	1.500	—
110*	2.425	2.025	1.950	—
164	3.700	1.500	1.425	1.850
196	4.300	1.800	1.725	2.150
204	4.450	1.875	1.800	2.225
220	4.750	2.025	1.950	2.375
250*	5.050	4.650	4.575	—
276	5.800	2.550	2.475	2.900
300	6.250	2.775	2.700	3.125
404	8.200	3.750	3.675	4.100

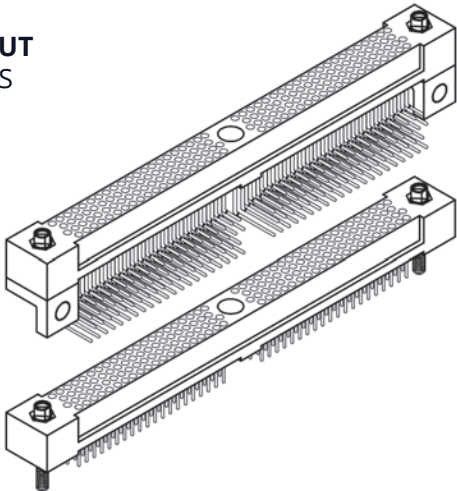
NOTES:
* = Single section, no center mounting hole
** = .125 dia thru holes, size 404



SIZE	CONTACT ID				SIZE	CONTACT ID			
86*	86	85	84	68	67	66	220	219	218
	65	64	63	46	45	44	196	195	194
	43	42	41	25	24	23	188	187	186
	22	21	20	3	2	1	176	175	174
110*	110	109	108	86	85	84	250	249	248
	83	82	81	58	57	56	191	190	189
	55	54	53	31	30	29	128	127	126
	28	27	26	3	2	1	66	65	64
164	164	163	162	144	143	142	276	275	274
	124	123	122	103	102	101	243	242	241
	82	81	80	62	61	60	173	172	171
	42	41	40	21	20	19	104	103	102
196	196	195	194	175	174	173	500	299	298
	148	147	146	126	125	124	266	265	264
	98	97	96	77	76	75	191	190	189
	50	49	48	28	27	26	116	115	114
204	204	203	202	182	181	180	263	262	261
	154	153	152	131	130	129	229	228	227
	102	101	100	80	79	78	188	187	186
	52	51	50	29	28	27	113	112	111
220	220	219	218	196	195	194	508	507	506
	166	165	164	141	140	139	308	307	306
	110	109	108	86	85	84	503	502	501
	56	55	54	31	30	29	208	207	206
250*	250	249	248	191	190	189	404	403	402
	188	187	186	128	127	126	308	307	306
	125	124	123	66	65	64	107	106	105
	63	62	61	3	2	1	202	201	200
276	276	275	274	243	242	241	508	507	506
	208	207	206	176	175	174	308	307	306
	138	137	136	107	106	105	503	502	501
	70	69	68	38	37	36	208	207	206
300	300	299	298	266	265	264	404	403	402
	228	227	226	191	190	189	308	307	306
	150	149	148	116	115	114	107	106	105
	76	75	74	41	40	39	202	201	200
404	404	403	402	308	307	306	508	507	506
	404	403	402	308	307	306	308	307	306
	201	200	199	107	106	105	503	502	501
	202	201	200	106	105	104	208	207	206

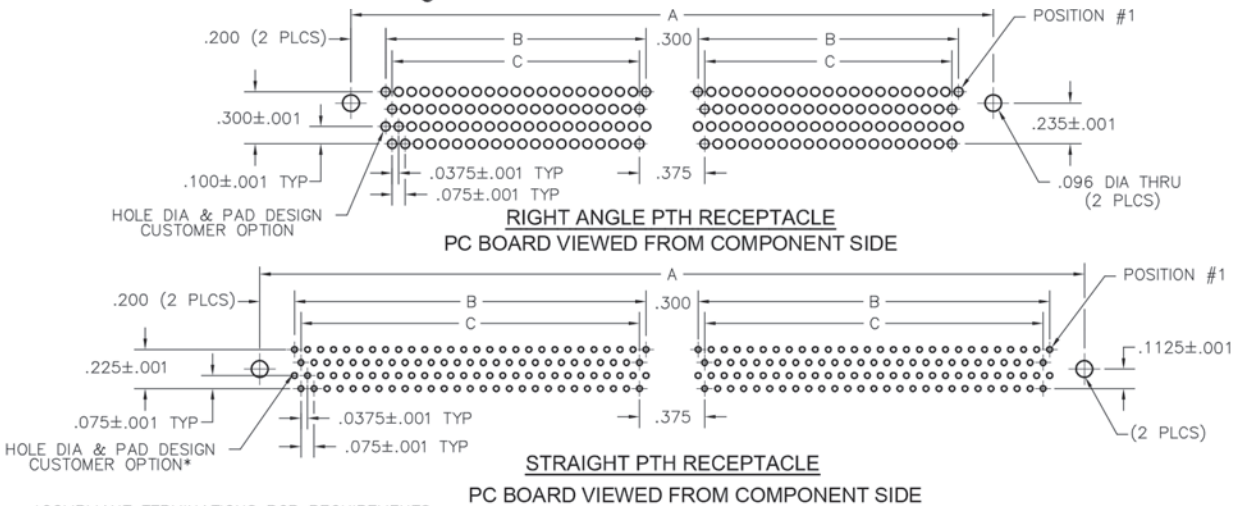
FOUR ROW – RIGHT ANGLE PTH RCPT STRAIGHT PTH RCPT

RM4 – RECOMMENDED BOARD LAYOUT 0.075" | 86 THROUGH 404 CONTACTS



DIMENSIONS			
SIZE	A	B	C
86*	1.975	1.575	1.500
110*	2.425	2.025	1.950
164	3.700	1.500	1.425
196	4.300	1.800	1.725
204	4.450	1.875	1.800
220	4.750	2.025	1.950
250*	5.050	4.650	4.575
276	5.800	2.550	2.475
300	6.250	2.775	2.700
404	8.200	3.750	3.675

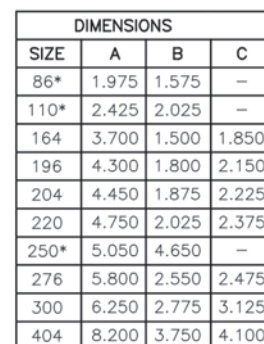
NOTES:
* = Single section, no center mounting hole



*COMPLIANT TERMINATIONS PCB REQUIREMENTS:
Board Material: FR-4 w/ 1.0 oz. copper
Minimum nominal board thickness: .062"
Drilled hole: .0319"-.0339"
Copper plating thickness: .0010" minimum
Tin-lead plating thickness: .0006" maximum
Electroplated tin-lead composition: 63/37 (Sn/Pb)
Finished hole diameter: .028"±.002"

SIZE	CONTACT ID				SIZE	CONTACT ID			
86*	22	21	20	3 2 1	220	56	55	54	31 30 29
	43	42	41	25 24 23		110	109	108	86 85 84
	65	64	63	46 45 44		166	165	164	141 140 139
110*	86	85	84	68 67 66		220	219	218	196 195 194
	28	27	26	3 2 1	250*	63	62	61	3 2 1
	55	54	53	31 30 29		125	124	123	66 65 64
164	83	82	81	58 57 56		188	187	186	128 127 126
	110	109	108	86 85 84		250	249	248	191 190 189
196	42	41	40	24 23 22	276	70	69	68	38 37 36
	82	81	80	65 64 63		138	137	136	107 106 105
	24	23	22	106 105 104		208	207	206	176 175 174
204	164	163	162	147 146 145	300	276	275	274	245 244 243
	50	49	48	28 27 26		76	75	74	41 40 39
	98	97	96	77 76 75		150	149	148	116 115 114
220	148	147	146	126 125 124	404	226	225	224	191 190 189
	196	195	194	175 174 173		500	299	298	266 265 264
	26	25	24	3 2 1		106	104	102	101 99 97
250*	77	76	75	55 54 53		201	199	197	100 98 96
	128	127	126	103 104 103		404	403	402	503 502 501
	179	178	177	157 156 155		509	507	505	503 502 501
276	52	51	50	29 28 27	300	202	201	200	101 99 97
	102	101	100	80 79 78		404	403	402	503 502 501
	154	153	152	131 130 129		509	507	505	503 502 501
204	204	203	202	182 181 180	404	202	201	200	101 99 97
	52	51	50	29 28 27		404	403	402	503 502 501
	102	101	100	80 79 78		509	507	505	503 502 501

RM4 – RECOMMENDED BOARD LAYOUT

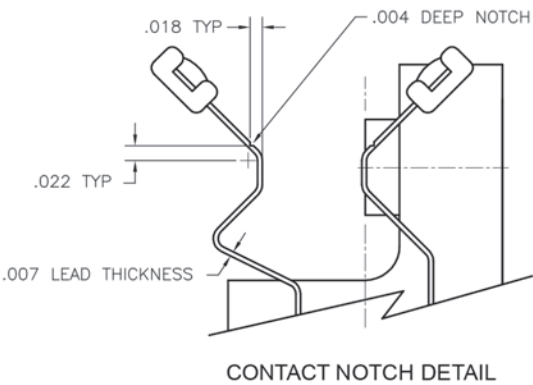
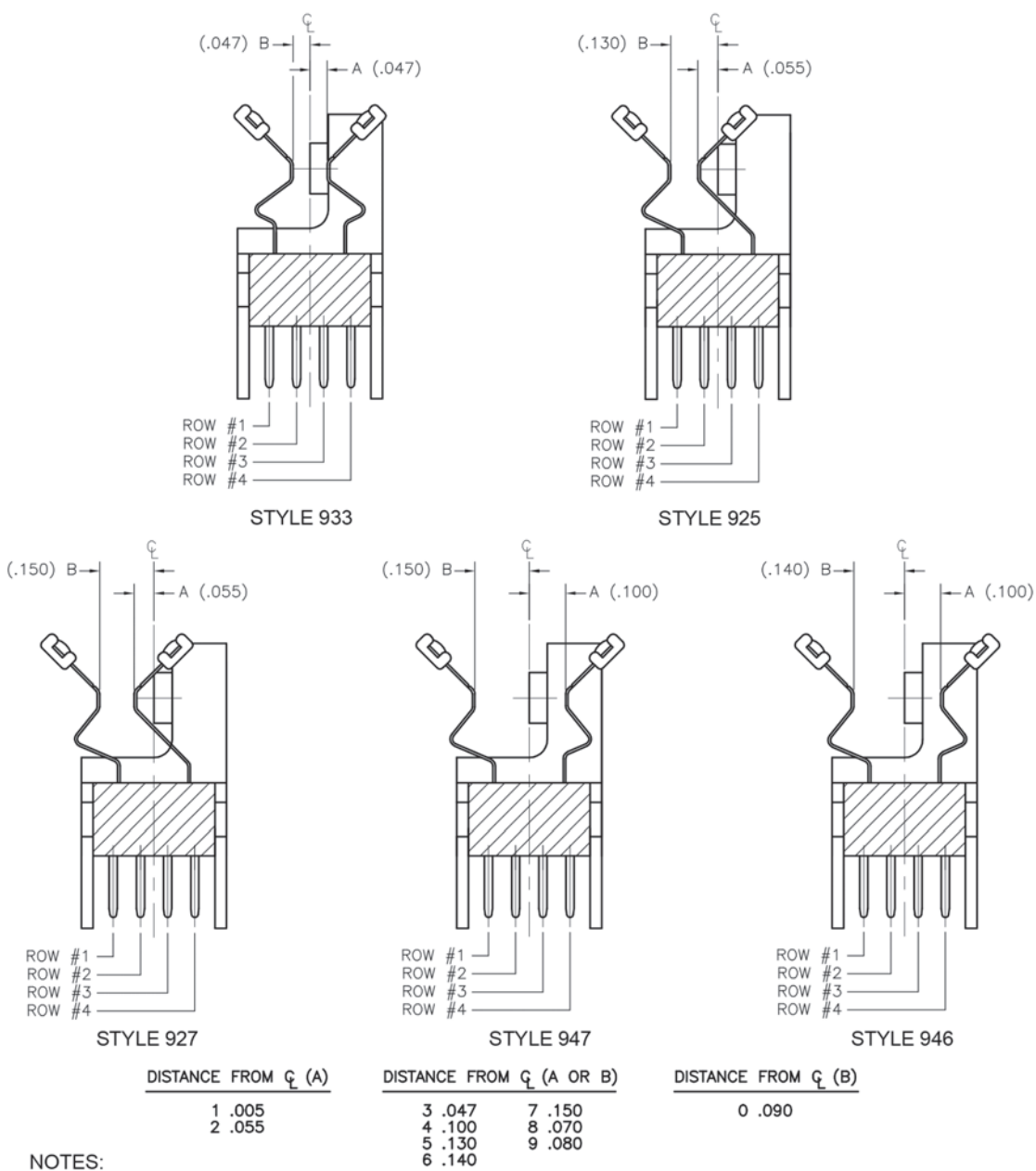


* = Single section, no center mounting hole



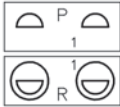
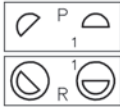
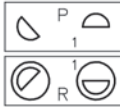
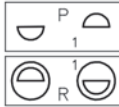
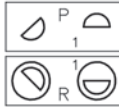
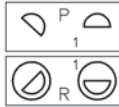
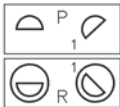
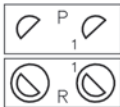
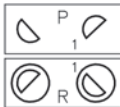
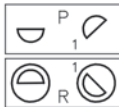
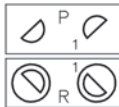
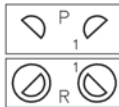
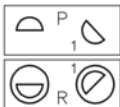
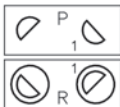
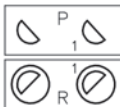
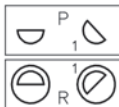
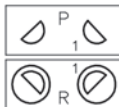

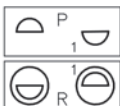


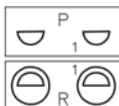


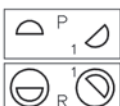
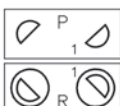
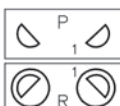
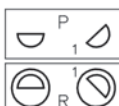
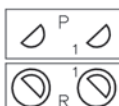
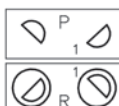
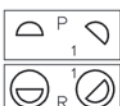
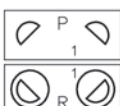
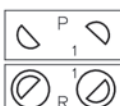
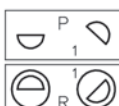
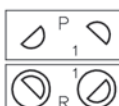
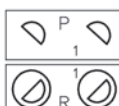
molex

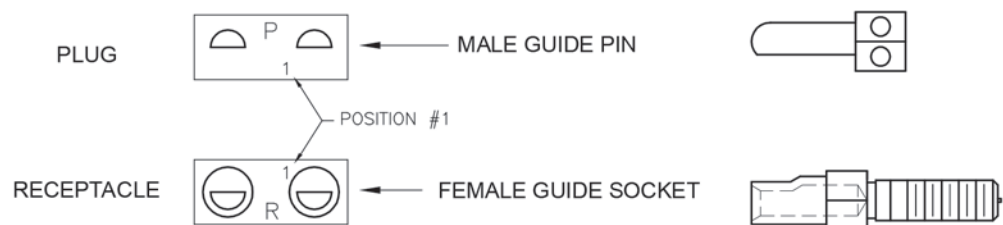
SMT CONFIGURATION OPTIONS



POLARIZATION FOUR ROW AND SIX ROW

D-Shaped Guide Hardware

01		07		13		19		25		31	
02		08		14		20		26		32	
03		09		15		21		27		33	
04		10		16		22		28		34	
05		11		17		23		29		35	
06		12		18		24		30		36	



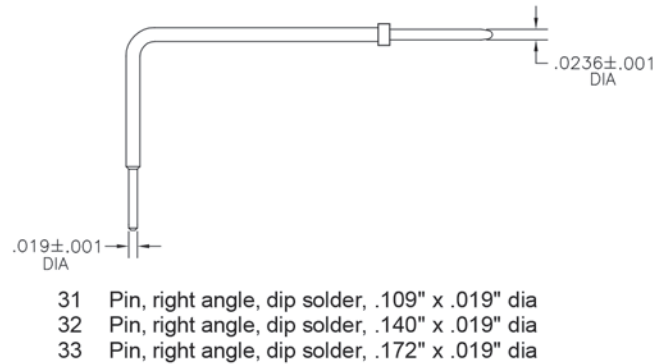
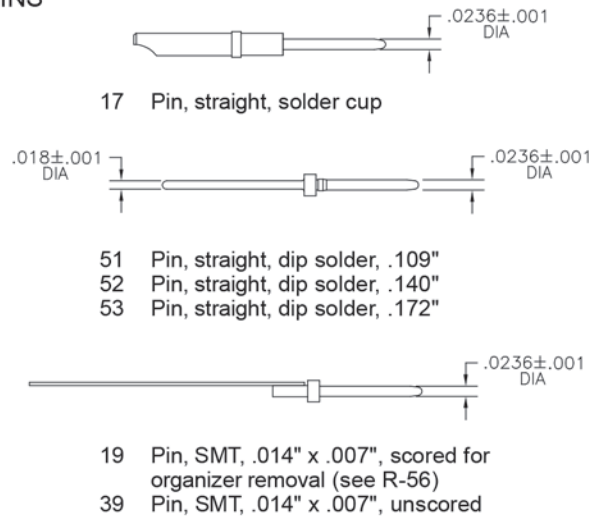
Select the appropriate two digit number above and include as the last two digits of the hardware code in the part number.

Example:
Plug RM452-220-311-9501
Receptacle RM462-220-811-9601

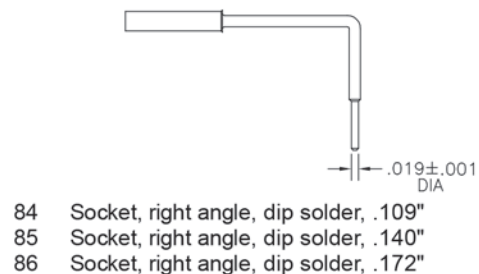
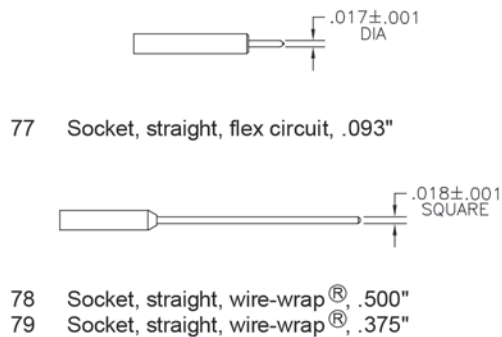
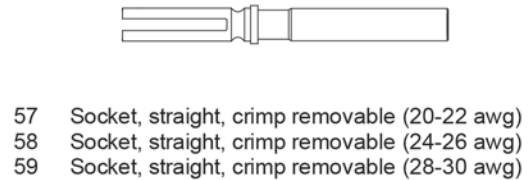
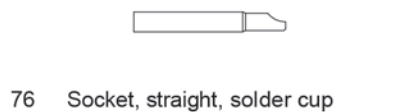
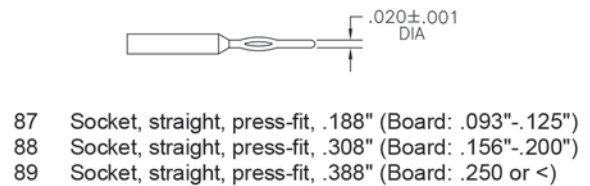
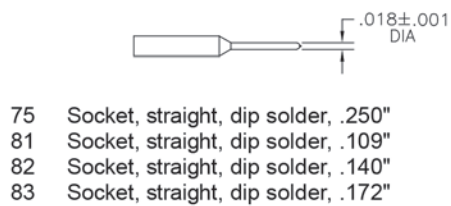
CONTACTS FOUR ROW

Pins and Sockets

PINS



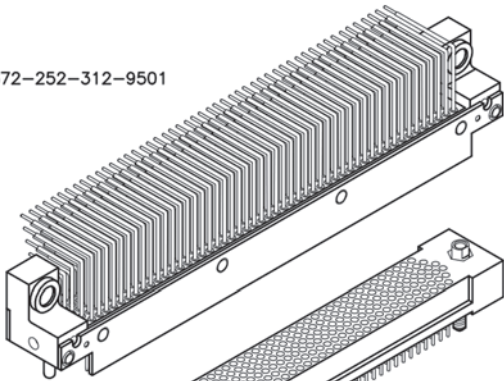
SOCKETS



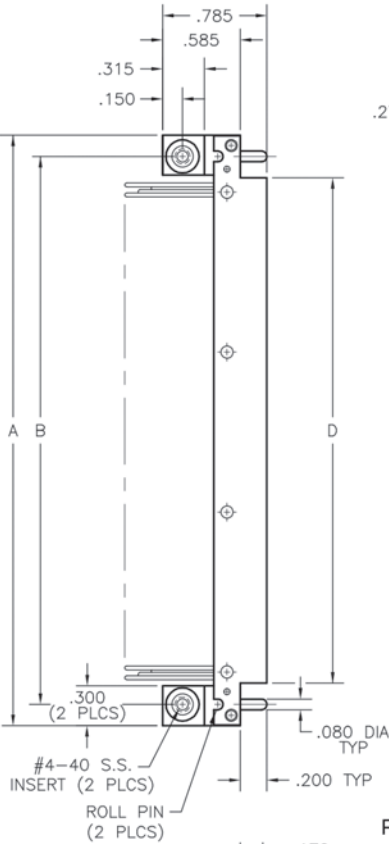
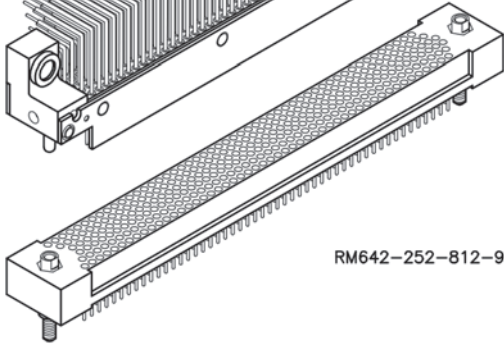
SIX ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RM6
0.075" | 162 THROUGH 402 CONTACTS

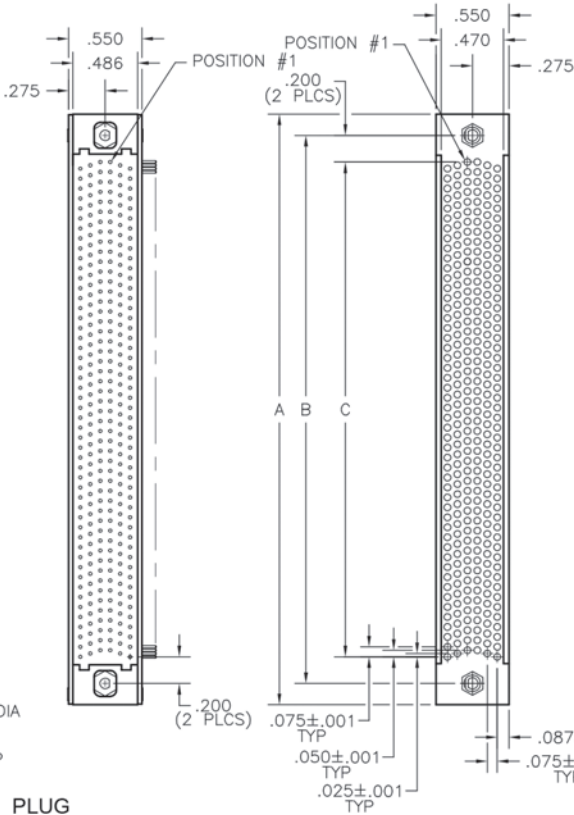
RM672-252-312-9501



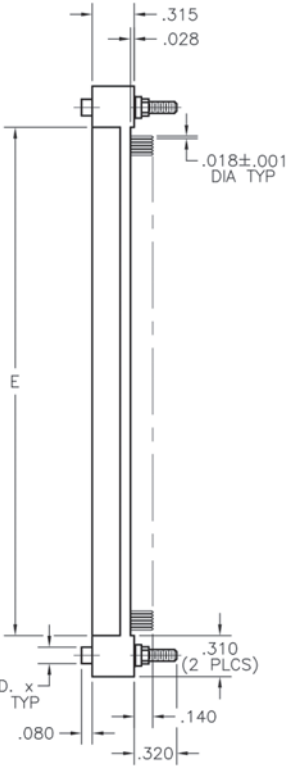
RM642-252-812-9601



PLUG



RECEPTACLE



DIMENSIONS					
SIZE	A	B	C	D	E
162	2.720	2.400	2.000	2.080	2.100
204	3.245	2.925	2.525	2.605	2.625
252	3.845	3.525	3.125	3.205	3.225
300	4.445	4.125	3.725	3.805	3.825
360	5.195	4.875	4.475	4.550	4.575
402	5.720	5.400	5.000	5.080	5.100

LEAD CONFIGURATION OPTIONS

PLUG: RM672-252-312-9501
 RECEPTACLE: RM642-252-812-9601
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES	
--------	--

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY	
------	--

6	6-Row	6	6-Row
BODY STYLE:		BODY STYLE:	
7	Plug, right angle, with mounting ears	4	Receptacle, straight, without metal mounting ears
BODY MATERIAL:		BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)

SIZE	
------	--

162, 204, 252, 300, 360, 402 | 162, 204, 252, 300, 360, 402

CONTACTS	
----------	--

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
31	Pin, right angle, dip solder, .109" x .019" dia	75	Socket, straight, dip solder, .250" x .018" dia
32	Pin, right angle, dip solder, .140" x .019" dia	76	Socket, straight, solder cup
33	Pin, right angle, dip solder, .172" x .019" dia	77	Socket, straight, flex, .093" x .017" dia
34	Pin, right angle, dip solder, .250" x .019" dia	81	Socket, straight, dip solder, .109" x .018" dia
		82	Socket, straight, dip solder, .140" x .018" dia
		83	Socket, straight, dip solder, .172" x .018" dia
		87	Socket, straight, press-fit, .188" (Board: .093" - .125" thk)
		88	Socket, straight, press-fit, .308" (Board: .156" - .200" thk)
		89	Socket, straight, press-fit, .388" (Board: .250"+ thk)
PLATING OPTIONS:		PLATING OPTIONS:	
1	Gold plated termination	1	Gold plated termination
2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	2	Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>
3	Pre-tinned termination, SAC305 alloy	3	Pre-tinned termination, SAC305 alloy (dip solder options only)

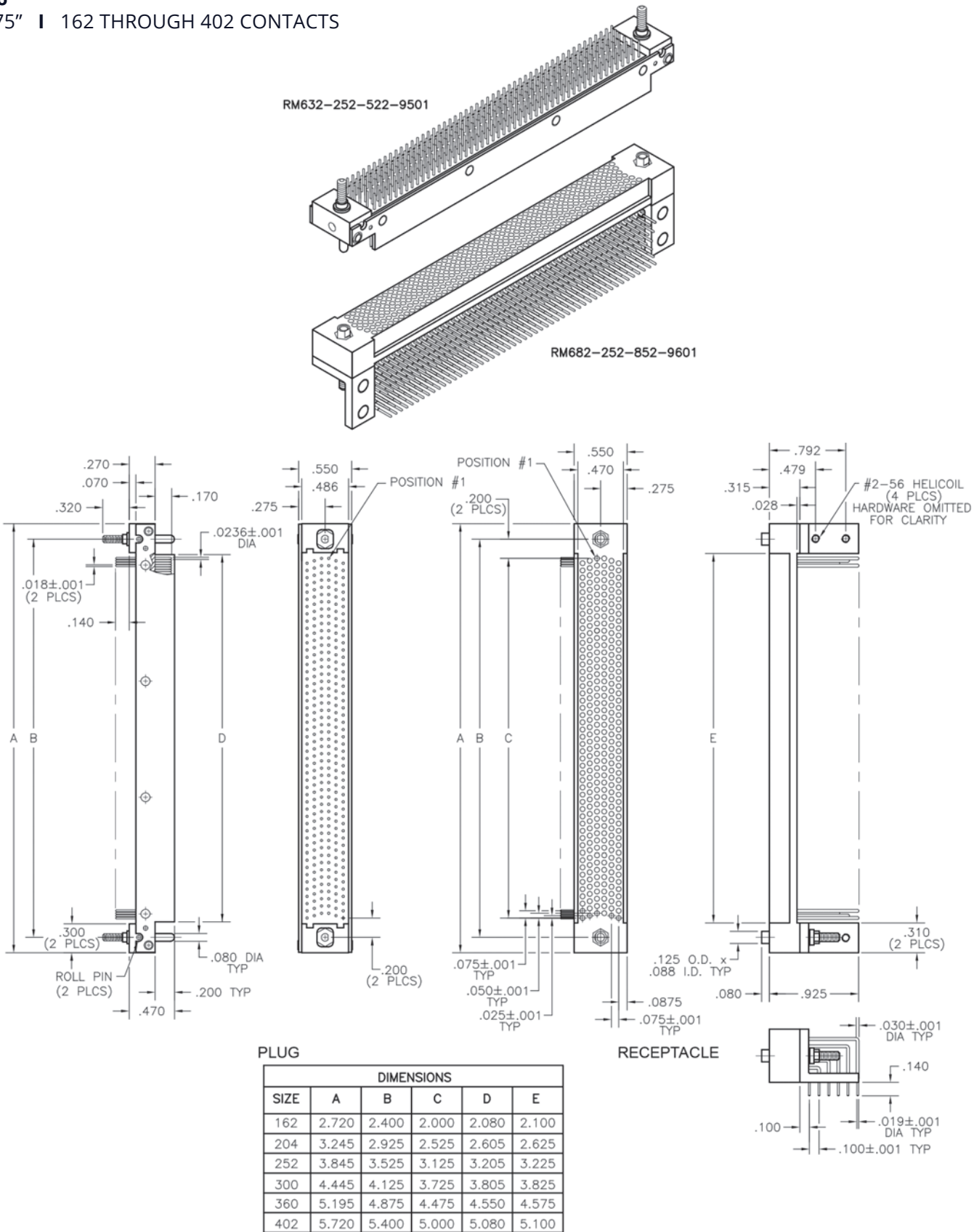
HARDWARE	
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STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	None	0256	None
83	Fixed jackset, reversed, installed	82	Hex turning jackset, reversed, installed, .200 knob
90	Guide pins, full round, installed	83	Fixed jackset, reversed, installed, #2-56 x .247" thd ext
93	Fixed jackset, installed	84	Fixed jackset, reversed, installed, #2-56 x .320" thd ext
95	Guide pins, polarized, unassembled	91	Guide sockets, full round, installed, #2-56 x .247" thd ext
9501 - 9536	Guide pins, polarized, installed	92	Hex turning jackset, installed, .200 knob
99	Guide pins, universal, installed	93	Fixed jackset, installed, #2-56 x .247" thd ext
		94	Fixed jackset, installed, #2-56 x .320" thd ext
		96	Guide sockets, polarized, unassembled, #2-56 x .320" thd ext
		9601 - 9636	Guide sockets, polarized, installed, #2-56 x .320" thd ext
		97	Guide sockets, polarized, unassembled, #2-56 x .247" thd ext
		9701 - 9736	Guide sockets, polarized, installed, #2-56 x .247" thd ext
		98	Guide sockets, universal, installed, #2-56 x .247" thd ext
POLARIZATION:		POLARIZATION:	
00	None	00	None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

☒ = Option not RoHS compliant

SIX ROW – MOTHERBOARD- OR CHASSIS-TO-DAUGHTERBOARD

RM6
 0.075" | 162 THROUGH 402 CONTACTS



LEAD CONFIGURATION OPTIONS

PLUG: RM632-252-522-9501
 RECEPTACLE: RM682-252-852-9601
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

6	6-Row	6	6-Row
BODY STYLE:		BODY STYLE:	
3	Plug, straight, without mounting ears	8	Receptacle, right angle, with metal mount brackets
BODY MATERIAL:		BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)

SIZE

162, 204, 252, 300, 360, 402 | 162, 204, 252, 300, 360, 402

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
17	Pin, straight, solder cup	84	Socket, right angle, dip solder, .109" x .019" dia
40	Pin, straight, flex .093" x .017" dia	85	Socket, right angle, dip solder, .140" x .019" dia
51	Pin, straight, dip solder, .109" x .018" dia	86	Socket, right angle, dip solder, .172" x .019" dia
52	Pin, straight, dip solder, .140" x .018" dia		
53	Pin, straight, dip solder, .172" x .018" dia		
54	Pin, straight, dip solder, .250" x .018" dia		

PLATING OPTIONS:		PLATING OPTIONS:	
1	Gold plated termination	1	Gold plated termination
2	Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>
3	Pre-tinned termination, SAC305 alloy (dip solder options only)	3	Pre-tinned termination, SAC305 alloy

HARDWARE

STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	None	0256	None
82	Hex turning jackset, reversed, installed, .200 knob	82	Hex turning jackset, reversed, installed, .200 knob
83	Fixed jackset, reversed, installed #2-56 x .247" thd ext	83	Fixed jackset, reversed, installed
84	Fixed jackset, reversed, installed #2-56 x .320" thd ext	91	Guide sockets, full round, installed
90	Guide pins, full round, installed #2-56 x .320" thd ext	92	Hex turning jackset, installed, .200 knob
92	Hex turning jackset, installed, .200 knob	93	Fixed jackset, installed
93	Fixed jackset, installed, #2-56 x .247" thd ext	96	Guide sockets, polarized, unassembled
94	Fixed jackset, installed, #2-56 x .320" thd ext	9601 - 9636	Guide sockets, polarized, installed
95	Guide pins, polarized, unassembled, #2-56 x .320" thd ext	97	Guide sockets, polarized, unassembled
9501 - 9536	Guide pins, polarized, installed, #2-56 x .320" thd ext	9701 - 9736	Guide sockets, polarized, installed
99	Guide pins, universal, installed #2-56 x .320" thd ext	98	Guide sockets, universal, installed
POLARIZATION:		POLARIZATION:	
00	None	00	None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

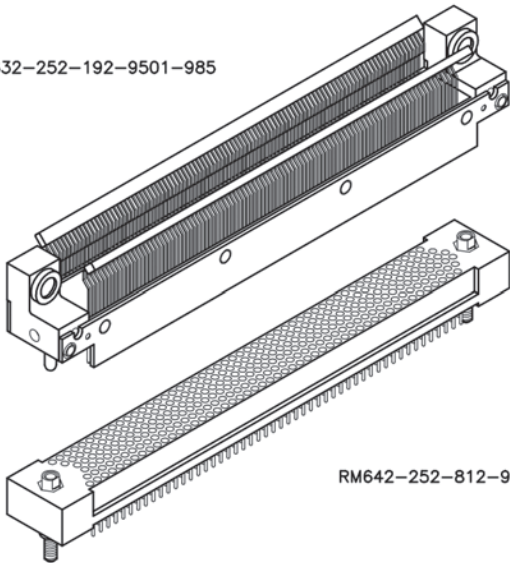
Note: Includes mounting bracket when right angle contacts are supplied

☒ = Option not RoHS compliant

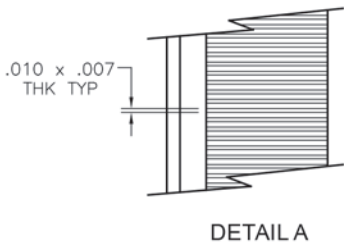
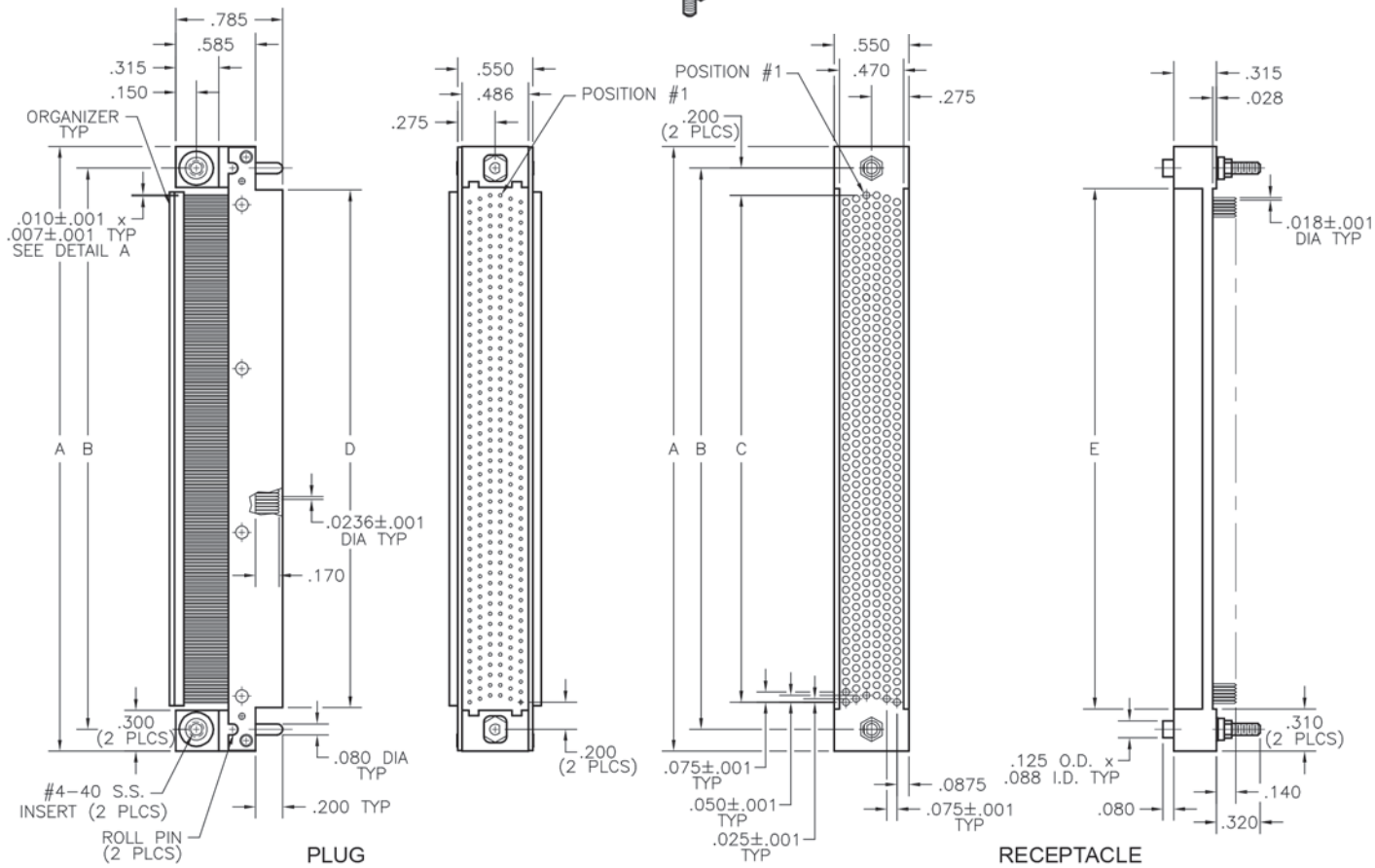
SIX ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RM6
0.075" | 162 THROUGH 402 CONTACTS

RM632-252-192-9501-985



RM642-252-812-9601



DIMENSIONS					
SIZE	A	B	C	D	E
162	2.720	2.400	2.000	2.080	2.100
204	3.245	2.925	2.525	2.605	2.625
252	3.845	3.525	3.125	3.205	3.225
300	4.445	4.125	3.725	3.805	3.825
360	5.195	4.875	4.475	4.550	4.575
402	5.720	5.400	5.000	5.080	5.100

LEAD CONFIGURATION OPTIONS

PLUG: RM632-252-192-9501-985
 RECEPTACLE: RM642-252-812-9601
 XXXXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

6	6-Row	6	6-Row
3	BODY STYLE: Plug, SMT, with mounting ears	4	BODY STYLE: outReceptacle, straight, without mounting ears
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)

SIZE

162, 204, 252, 300, 360, 402 | 162, 204, 252, 300, 360, 402

CONTACTS

19	TYPE CONTACTS/TERMINATIONS: Pin, SMT, .014" x .007" tail, scored for organizer removal (see R-56)	75	TYPE CONTACTS/TERMINATIONS: Socket, straight, dip solder, .250" x .018" dia
39	Pin, SMT, .014" x .007" tail, unscored	76	Socket, straight, solder cup
		77	Socket, straight, flex, .093" x .017" dia
		81	Socket, straight, dip solder, .109" x .018" dia
		82	Socket, straight, dip solder, .140" x .018" dia
		83	Socket, straight, dip solder, .172" x .018" dia
		87	Socket, straight, press-fit, .188" (Board: .093" - .125" thk)
		88	Socket, straight, press-fit, .308" (Board: .156" - .200" thk)
		89	Socket, straight, press-fit, .388" (Board: .250"+ thk)

2	PLATING OPTIONS: Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	1	PLATING OPTIONS: Gold plated termination
3	Pre-tinned termination, SAC305 alloy	2	Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>
		3	Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE

0256	STYLE OF HARDWARE: None	0256	STYLE OF HARDWARE: None
83	Fixed jackset, reversed, installed	82	Hex turning jackset, reversed, installed, .200 knob
90	Guide pins, full round, installed	83	Fixed jackset, reversed, installed, #2-56 x .247" thd ext
93	Fixed jackset, installed	84	Fixed jackset, reversed, installed, #2-56 x .320" thd ext
95	Guide pins, polarized, unassembled	91	Guide sockets, full round, installed, #2-56 x .247" thd ext
9501 - 9536	Guide pins, polarized, installed	92	Hex turning jackset, installed, .200 knob
99	Guide pins, universal, installed	93	Fixed jackset, installed, #2-56 x .247" thd ext
		94	Fixed jackset, installed, #2-56 x .320" thd ext
		96	Guide sockets, polarized, unassembled, #2-56 x .320" thd ext
		9601 - 9636	Guide sockets, polarized, installed, #2-56 x .320" thd ext
		97	Guide sockets, polarized, unassembled, #2-56 x .247" thd ext
		9701 - 9736	Guide sockets, polarized, installed, #2-56 x .247" thd ext
		98	Guide sockets, universal, installed, #2-56 x .247" thd ext

00	POLARIZATION: None	00	POLARIZATION: None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

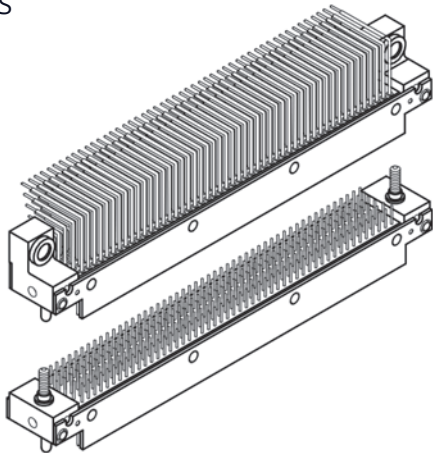
OPTIONS

9XX SMT configuration code, see page R-56

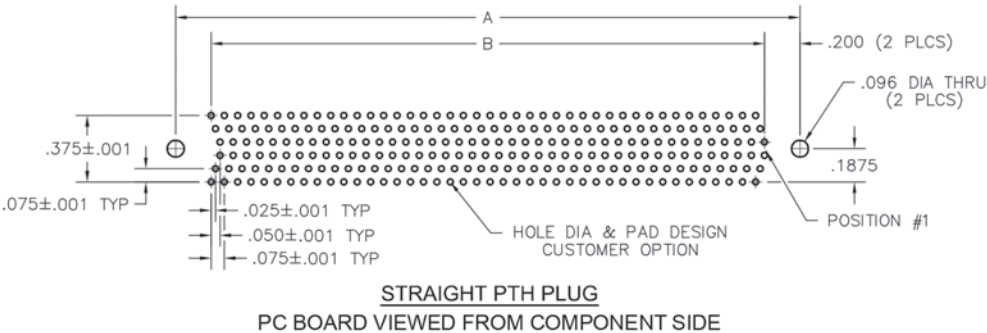
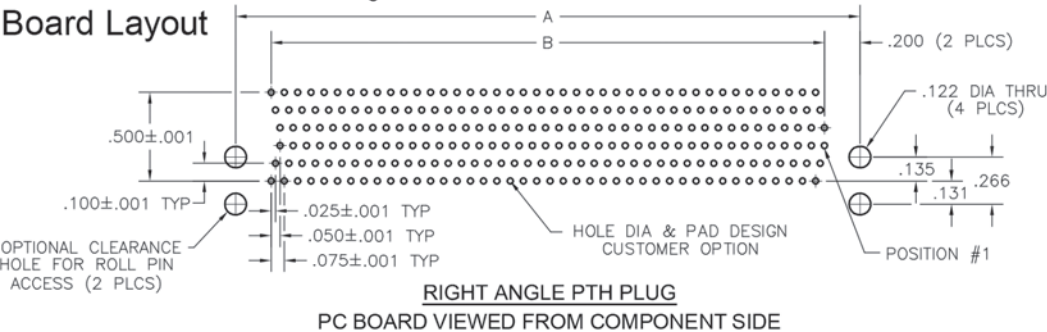
☒ = Option not RoHS compliant

SIX ROW – RIGHT ANGLE PTH PLUG STRAIGHT PTH PLUG

RM6 – RECOMMENDED BOARD LAYOUT
0.075" | 162 THROUGH 402 CONTACTS



DIMENSIONS		
SIZE	A	B
162	2.400	2.000
204	2.925	2.525
252	3.525	3.125
300	4.125	3.725
360	4.875	4.475
402	5.400	5.000

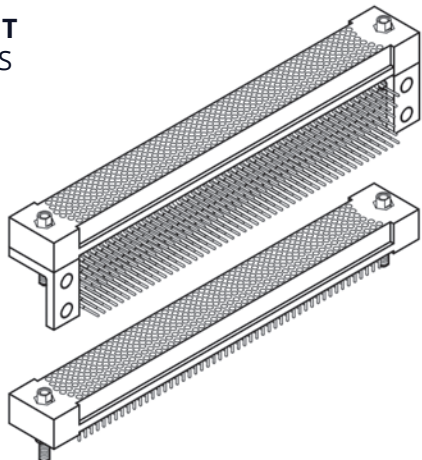


SIZE	CONTACT ID		SIZE	CONTACT ID	
162	(162)159(156)	(90)87(84)	300	(300)297(294)	(159)156(153)
	(161)158(155)	(89)86(83)		(299)296(293)	(158)155(152)
	(160)157(154)	(88)85(82)		(298)295(292)	(157)154(151)
	(79)76(73)	(7)4(1)		(148)145(142)	(7)4(1)
	(80)77(74)	(8)5(2)		(149)146(143)	(8)5(2)
	(81)78(75)	(9)6(3)		(150)147(144)	(9)6(3)
204	(204)201(198)	(111)108(105)	360	(360)357(354)	(189)186(183)
	(203)200(197)	(110)107(104)		(359)356(353)	(188)185(182)
	(202)199(196)	(109)106(103)		(358)355(352)	(187)184(181)
	(100)97(94)	(7)4(1)		(178)175(172)	(7)4(1)
	(101)98(95)	(8)5(2)		(179)176(173)	(8)5(2)
	(102)99(96)	(9)6(3)		(180)177(174)	(9)6(3)
252	(252)249(246)	(135)132(129)	402	(402)399(396)	(210)207(204)
	(251)248(245)	(134)131(128)		(401)398(395)	(209)206(203)
	(250)247(244)	(133)130(127)		(400)397(394)	(208)205(202)
	(124)121(118)	(7)4(1)		(199)196(193)	(7)4(1)
	(125)122(119)	(8)5(2)		(200)197(194)	(8)5(2)
	(126)123(120)	(9)6(3)		(201)198(195)	(9)6(3)

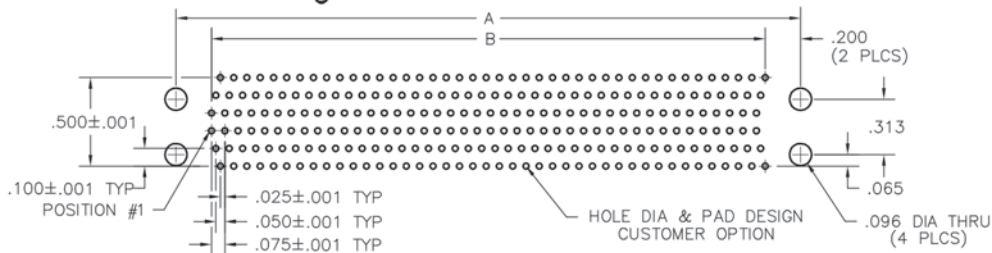
SIX ROW – RIGHT ANGLE PTH RCPT STRAIGHT PTH RCPT

RM6 – RECOMMENDED BOARD LAYOUT

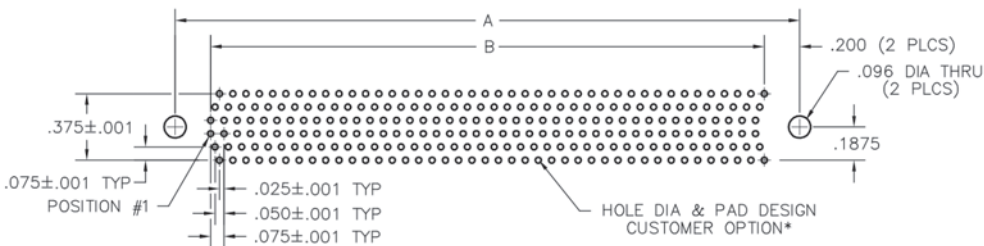
0.075" | 162 THROUGH 402 CONTACTS



DIMENSIONS		
SIZE	A	B
162	2.400	2.000
204	2.925	2.525
252	3.525	3.125
300	4.125	3.725
360	4.875	4.475
402	5.400	5.000



RIGHT ANGLE PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE



STRAIGHT PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE

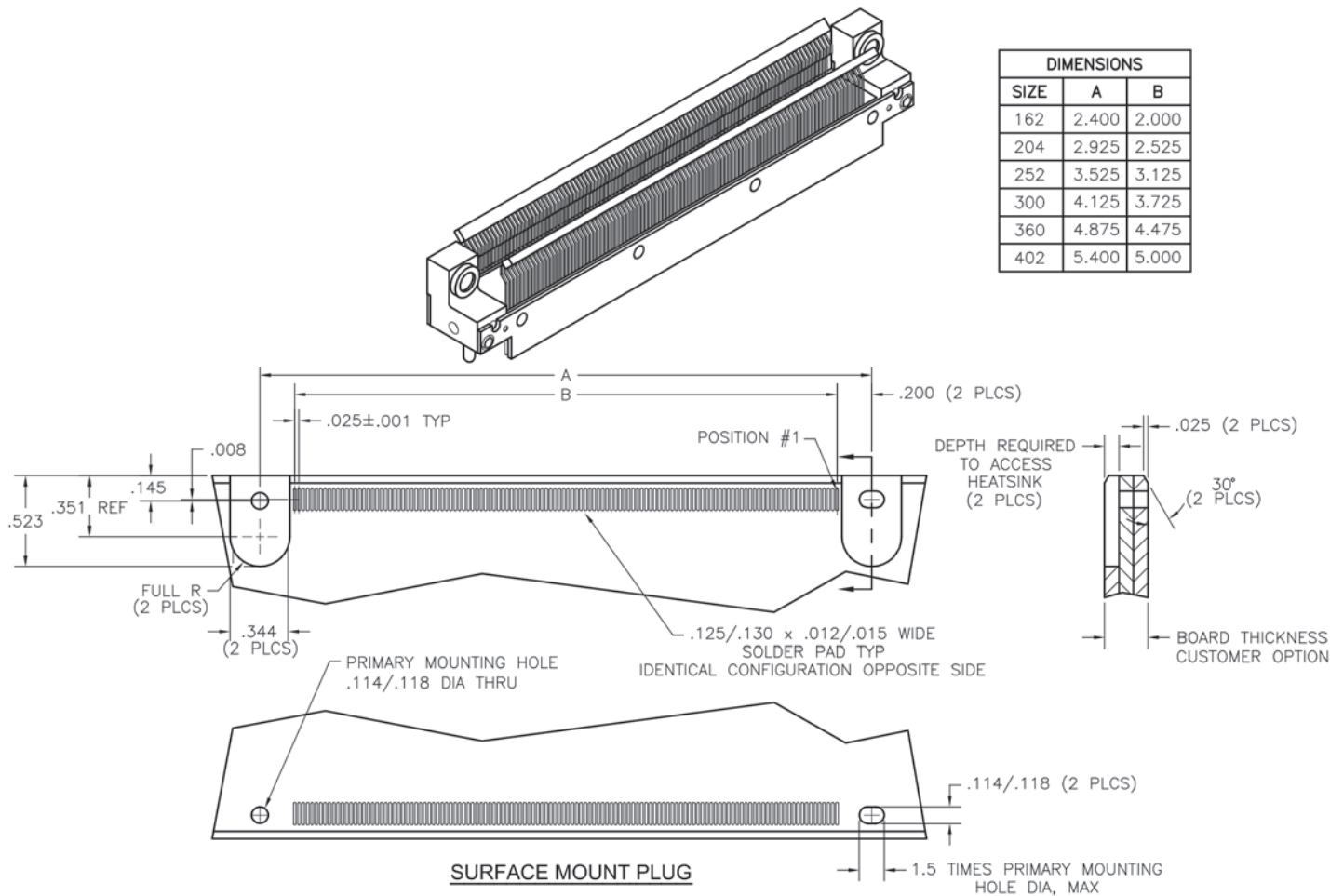
*COMPLIANT TERMINATION REQUIREMENTS:
Board Material: FR-4 w/ 1.0 oz. copper
Minimum nominal board thickness: .062"
Drilled hole: .0319"-.0339"
Copper plating thickness: .0010" minimum
Tin-lead plating thickness: .0006" maximum
Electroplated tin-lead composition: 63/37 (Sn/Pb)
Finished hole diameter: .028"±.002"

SIZE	CONTACT ID	SIZE	CONTACT ID
162	84 87 90 83 86 89 82 85 88 1 4 7 2 5 8 3 6 9	300	153 156 159 152 155 158 151 154 157 1 4 7 2 5 8 3 6 9
	156 159 162 155 158 161 154 157 160 73 76 79 74 77 80 75 78 81		294 297 300 293 296 299 292 295 298 142 145 148 143 146 149 144 147 150
204	109 108 111 104 107 110 103 106 109 1 4 7 2 5 8 3 6 9	360	183 186 189 182 185 188 181 184 187 1 4 7 2 5 8 3 6 9
	198 201 204 197 200 203 196 199 202 94 97 100 95 98 101 96 99 102		354 357 360 353 356 359 352 355 358 172 175 178 173 176 179 174 177 180
252	129 132 135 128 131 134 127 130 133 1 4 7 2 5 8 3 6 9	402	204 207 210 203 206 209 202 205 208 1 4 7 2 5 8 3 6 9
	246 249 252 245 248 251 244 247 250 118 121 124 119 122 125 120 123 126		398 399 402 395 398 401 392 395 400 194 197 200 195 198 201

SIX ROW – STRAIGHT SMT PLUG

RM6 – RECOMMENDED BOARD LAYOUT

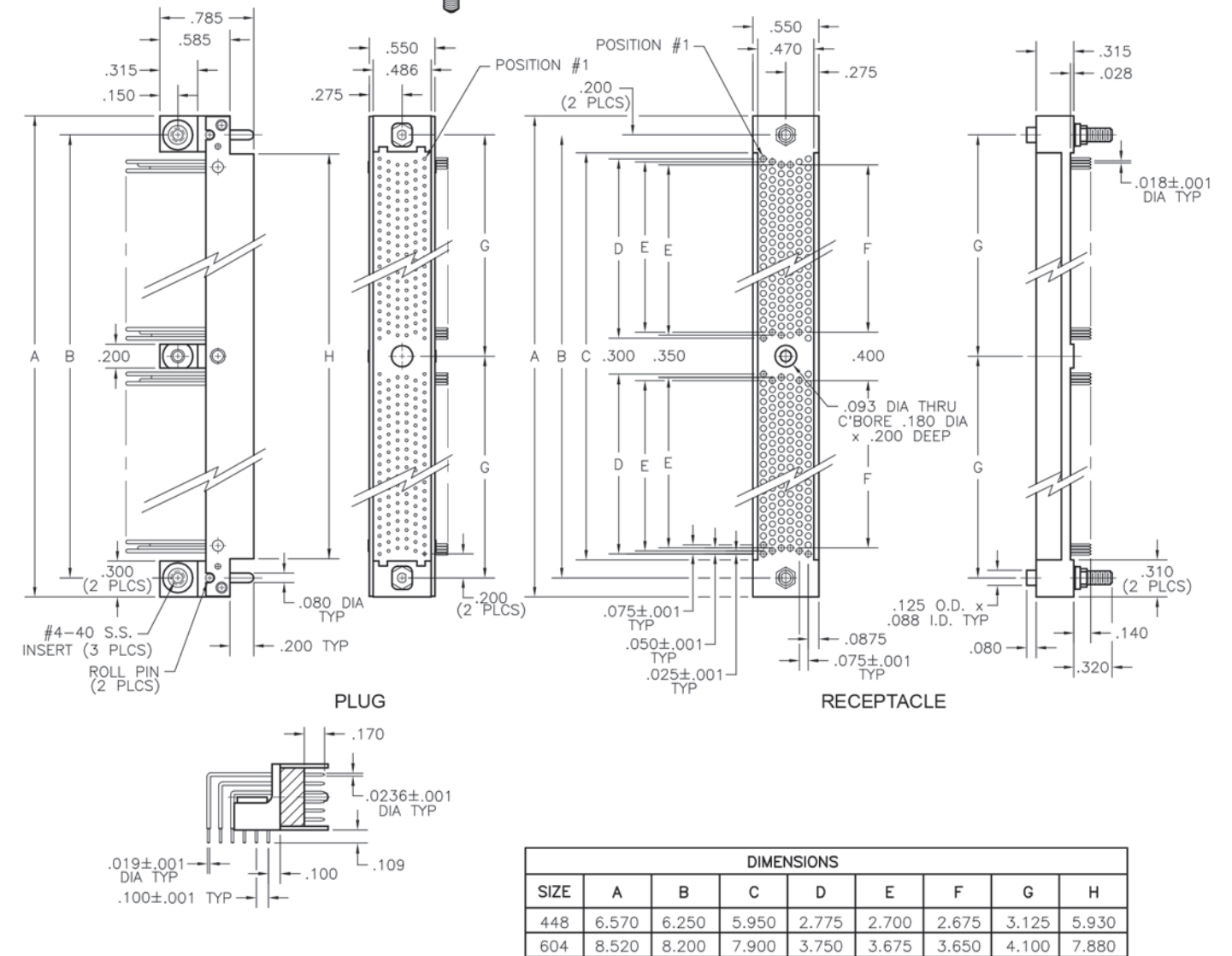
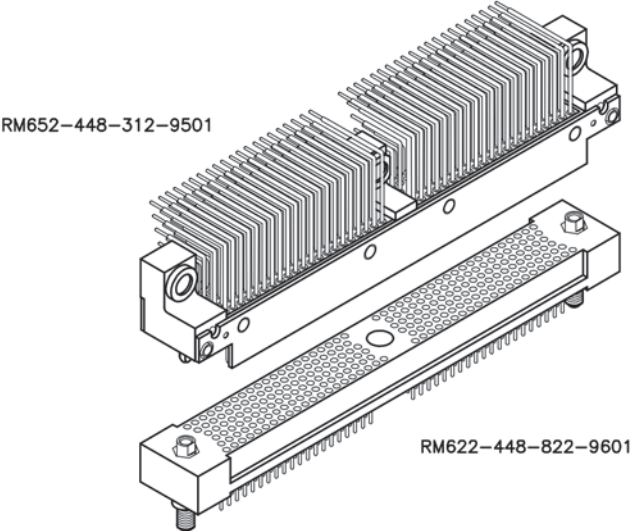
0.075" | 162 THROUGH 402 CONTACTS



SIZE	CONTACT ID						SIZE	CONTACT ID					
162	C162						300	C300					
	C161							C299					
	C81							C150					
	C80							C149					
	C79							C148					
	C78							C147					
204	C204						360	C360					
	C203							C359					
	C102							C180					
	C101							C179					
	C100							C178					
	C99							C177					
252	C252						402	C402					
	C251							C401					
	C126							C201					
	C125							C200					
	C124							C199					
	C123							C198					
300	C300						360	C360					
	C299							C359					
	C150							C180					
	C149							C179					
	C148							C178					
	C147							C177					
360	C360						402	C402					
	C359							C401					
	C180							C201					
	C179							C200					
	C178							C199					
	C177							C198					
402	C402						360	C360					
	C401							C359					
	C201							C180					
	C200							C179					
	C199							C178					
	C198							C177					
402	C402						360	C360					
	C401							C359					
	C201							C180					
	C200							C179					
	C199							C178					
	C198							C177					

SIX ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RM6
0.075" | 448 THROUGH 604 CONTACTS



LEAD CONFIGURATION OPTIONS

PLUG: RM652-448-312-9501
 RECEPTACLE: RM622-448-822-9601
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector

BODY	
6 6-Row	6 6-Row
BODY STYLE: 5 Plug, right angle, with mounting ears	BODY STYLE: 2 Receptacle, straight, without mounting ears
BODY MATERIAL: 2 Polyphenylene sulfide (PPS)	BODY MATERIAL: 2 Polyphenylene sulfide (PPS)

SIZE	
448, 604	448, 604

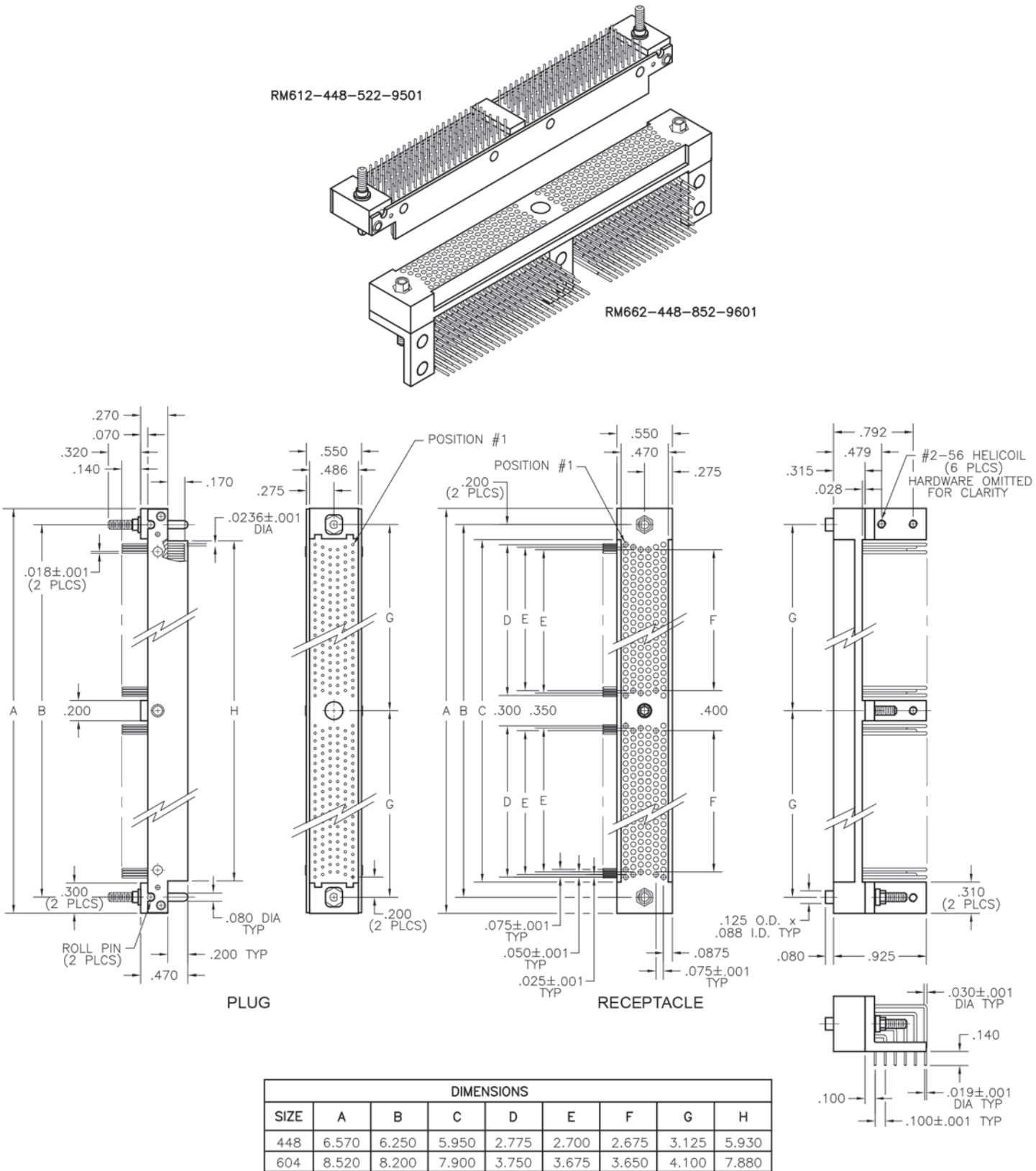
CONTACTS	
TYPE CONTACTS/TERMINATIONS: 31 Pin, right angle, dip solder, .109" x .019" dia 32 Pin, right angle, dip solder, .140" x .019" dia 33 Pin, right angle, dip solder, .172" x .019" dia 34 Pin, right angle, dip solder, .250" x .019" dia	TYPE CONTACTS/TERMINATIONS: 75 Socket, straight, dip solder, .250" x .018" dia 76 Socket, straight, solder cup 77 Socket, straight, flex, .093" x .017" dia 81 Socket, straight, dip solder, .109" x .018" dia 82 Socket, straight, dip solder, .140" x .018" dia 83 Socket, straight, dip solder, .172" x .018" dia 87 Socket, straight, press-fit, .188" (Board: .093" - .125" thk) 88 Socket, straight, press-fit, .308" (Board: .156" - .200" thk) 89 Socket, straight, press-fit, .388" (Board: .250"+ thk)
PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/> 3 Pre-tinned termination, SAC305 alloy	PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/> 3 Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE	
STYLE OF HARDWARE: 0256 None 83 Fixed jackset, reversed, installed 90 Guide pins, full round, installed 93 Fixed jackset, installed 95 Guide pins, polarized, unassembled 9501 - 9536 Guide pins, polarized, installed 99 Guide pins, universal, installed	STYLE OF HARDWARE: 0256 None 82 Hex turning jackset, reversed, installed, .200 knob 83 Fixed jackset, reversed, installed, #4-40 x .247" thd ext 84 Fixed jackset, reversed, installed, #4-40 x .320" thd ext 91 Guide sockets, full round, installed, #4-40 x .247" thd ext 92 Hex turning jackset, installed, .200 knob 93 Fixed jackset, installed, #4-40 x .247" thd ext 94 Fixed jackset, installed, #4-40 x .320" thd ext 96 Guide sockets, polarized, unassembled, #4-40 x .320" thd ext 9601 - 9636 Guide sockets, polarized, installed, #4-40 x .320" thd ext 97 Guide sockets, polarized, unassembled, #4-40 x .247" thd ext 9701 - 9736 Guide sockets, polarized, installed, #4-40 x .247" thd ext 98 Guide sockets, universal, installed, #4-40 x .247" thd ext
POLARIZATION: 00 None 01 thru 36 are special identifiers, see page R-62	POLARIZATION: 00 None 01 thru 36 are special identifiers, see page R-62

☒ = Option not RoHS compliant

SIX ROW – MOTHERBOARD- OR CHASSIS-TO-DAUGHTERBOARD

RM6
0.075" | 448 THROUGH 604 CONTACTS



LEAD CONFIGURATION OPTIONS

PLUG: RM612-448-522-9501
 RECEPTACLE: RM662-448-852-9601
 XXXXX-XXX-XXX-XXXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

6	6-Row	6	6-Row
BODY STYLE:		BODY STYLE:	
1	Plug, straight, without mounting ears	6	Receptacle, right angle, with metal mount brackets
BODY MATERIAL:		BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)

SIZE

448, 604 | 448, 604

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
17	Pin, straight, solder cup	84	Socket, right angle, dip solder, .109" x .019" dia
40	Pin, straight, flex .093" x .017" dia	85	Socket, right angle, dip solder, .140" x .019" dia
51	Pin, straight, dip solder, .109" x .018" dia	86	Socket, right angle, dip solder, .172" x .019" dia
52	Pin, straight, dip solder, .140" x .018" dia		
53	Pin, straight, dip solder, .172" x .018" dia		
54	Pin, straight, dip solder, .250" x .018" dia		

PLATING OPTIONS:		PLATING OPTIONS:	
1	Gold plated termination	1	Gold plated termination
2	Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>	2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>
3	Pre-tinned termination, SAC305 alloy (dip solder options only)	3	Pre-tinned termination, SAC305 alloy

HARDWARE

STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	None	0256	None
82	Hex turning jackset, reversed, installed, .200 knob	82	Hex turning jackset, reversed, installed, .200 knob
83	Fixed jackset, reversed, installed #4-40 x .247" thd ext	83	Fixed jackset, reversed, installed
84	Fixed jackset, reversed, installed #4-40 x .320" thd ext	91	Guide sockets, full round, installed
90	Guide pins, full round, installed #4-40 x .320" thd ext	92	Hex turning jackset, installed, .200 knob
92	Hex turning jackset, installed, .200 knob	93	Fixed jackset, installed
93	Fixed jackset, installed, #4-40 x .247" thd ext	96	Guide sockets, polarized, unassembled
94	Fixed jackset, installed, #4-40 x .320" thd ext	9601 - 9636	Guide sockets, polarized, installed
95	Guide pins, polarized, unassembled, #4-40 x .320" thd ext	97	Guide sockets, polarized, unassembled
9501 - 9536	Guide pins, polarized, installed, #4-40 x .320" thd ext	9701 - 9736	Guide sockets, polarized, installed
99	Guide pins, universal, installed #4-40 x .320" thd ext	98	Guide sockets, universal, installed
POLARIZATION:		POLARIZATION:	
00	None	00	None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

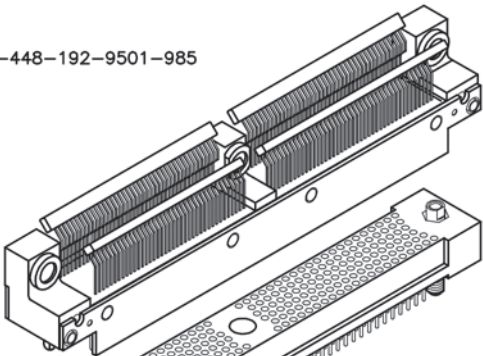
Note: Includes mounting bracket when right angle contacts are supplied

☒ = Option not RoHS compliant

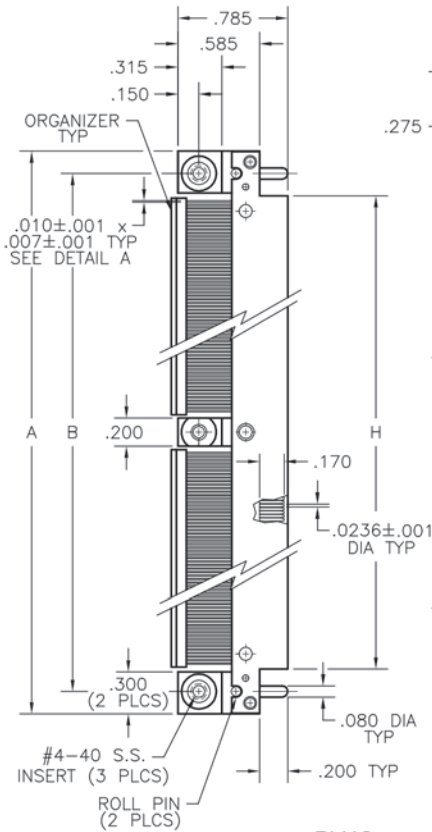
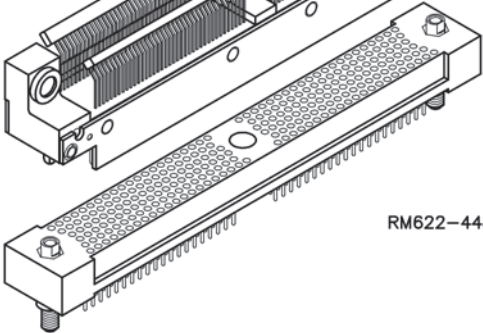
SIX ROW – DAUGHTERBOARD-TO-MOTHERBOARD OR CHASSIS

RM6
0.075" | 448 THROUGH 604 CONTACTS

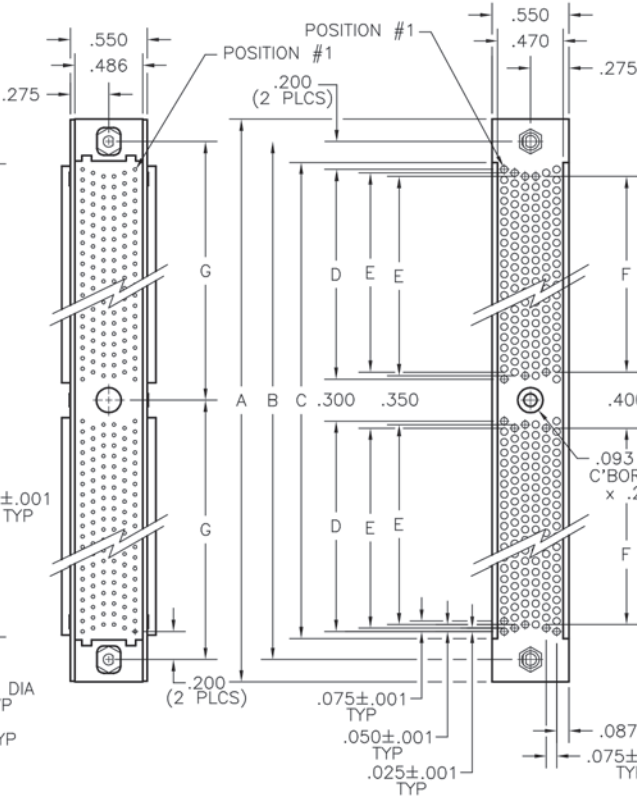
RM612-448-192-9501-985



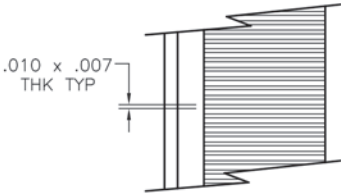
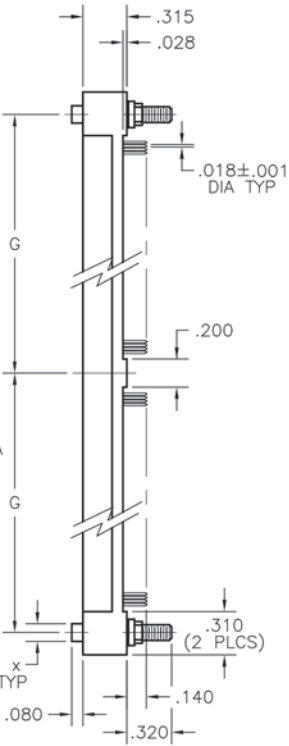
RM622-448-822-9601



PLUG



RECEPTACLE



DETAIL A

DIMENSIONS								
SIZE	A	B	C	D	E	F	G	H
448	6.570	6.250	5.950	2.775	2.700	2.675	3.125	5.930
604	8.520	8.200	7.900	3.750	3.675	3.650	4.100	7.880

LEAD CONFIGURATION OPTIONS

PLUG: RM612-448-192-9501-985
 RECEPTACLE: RM622-448-822-9601
 XXXXX-XXX-XXX-XXXX-XXX

PLUG

RECEPTACLE

SERIES

RM .075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector

BODY

6	6-Row	6	6-Row
BODY STYLE:		BODY STYLE:	
1	Plug, SMT, with mounting ears	2	Receptacle, straight, without mounting ears
BODY MATERIAL:		BODY MATERIAL:	
2	Black anodized side shield (PPS)	2	Black anodized side shield (PPS)
5	Nickel plated side shield (PPS)	5	Nickel plated side shield (PPS)

SIZE

448, 604 | 448, 604

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
19	Pin, SMT, .014" x .007" tail, scored for organizer removal (see R-56)	75	Socket, straight, dip solder, .250" x .018" dia
39	Pin, SMT, .014" x .007" tail, unscored	76	Socket, straight, solder cup
		77	Socket, straight, flex, .093" x .017" dia
		81	Socket, straight, dip solder, .109" x .018" dia
		82	Socket, straight, dip solder, .140" x .018" dia
		83	Socket, straight, dip solder, .172" x .018" dia
		87	Socket, straight, press-fit, .188" (Board: .093" - .125" thk)
		88	Socket, straight, press-fit, .308" (Board: .156" - .200" thk)
		89	Socket, straight, press-fit, .388" (Board: .250"+ thk)
PLATING OPTIONS:		PLATING OPTIONS:	
2	Pre-tinned termination, SnPb alloy <input checked="" type="checkbox"/>	1	Gold plated termination
3	Pre-tinned termination, SAC305 alloy	2	Pre-tinned termination, SnPb alloy (dip solder options only) <input checked="" type="checkbox"/>
		3	Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE

STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	None	0256	None
83	Fixed jackset, reversed, installed	82	Hex turning jackset, reversed, installed, .200 knob
90	Guide pins, full round, installed	83	Fixed jackset, reversed, installed, #4-40 x .247 thd ext
93	Fixed jackset, installed	84	Fixed jackset, reversed, installed, #4-40 x .320 thd ext
95	Guide pins, polarized, unassembled	91	Guide sockets, full round, installed, #4-40 x .247" thd ext
9501 - 9536	Guide pins, polarized, installed	92	Hex turning jackset, installed, .200 knob
99	Guide pins, universal, installed	93	Fixed jackset, installed, #4-40 x .247 thd ext
		94	Fixed jackset, installed, #4-40 x .320 thd ext
		96	Guide sockets, polarized, unassembled, #4-40 x .320" thd ext
		9601 - 9636	Guide sockets, polarized, installed, #4-40 x .320" thd ext
		97	Guide sockets, polarized, unassembled, #4-40 x .247" thd ext
		9701 - 9736	Guide sockets, polarized, installed, #4-40 x .247" thd ext
		98	Guide sockets, universal, installed, #4-40 x .247" thd ext
POLARIZATION:		POLARIZATION:	
00	None	00	None
01	thru 36 are special identifiers, see page R-62	01	thru 36 are special identifiers, see page R-62

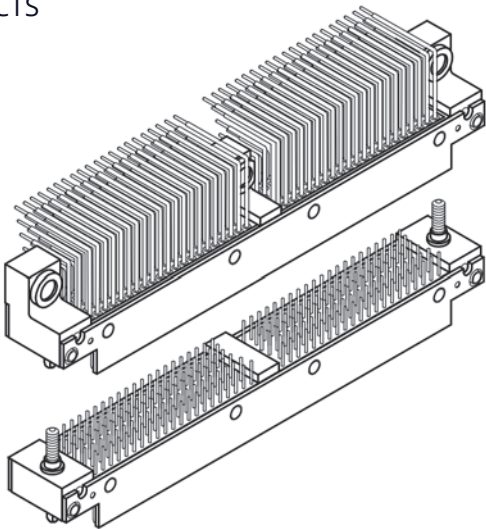
OPTIONS

9XX SMT configuration code, see page R-56

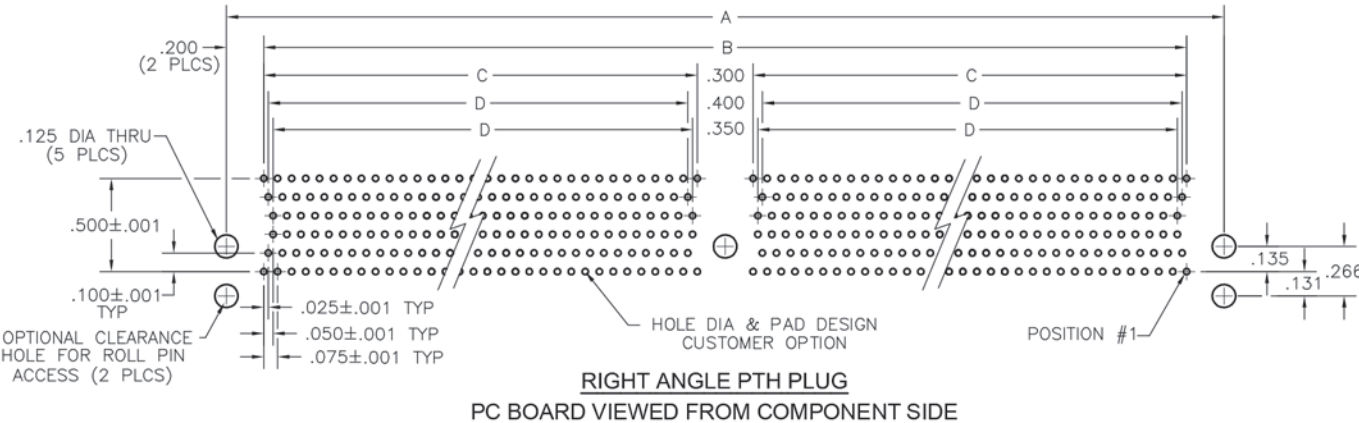
☒ = Option not RoHS compliant

SIX ROW – RIGHT ANGLE PTH PLUG STRAIGHT PTH PLUG

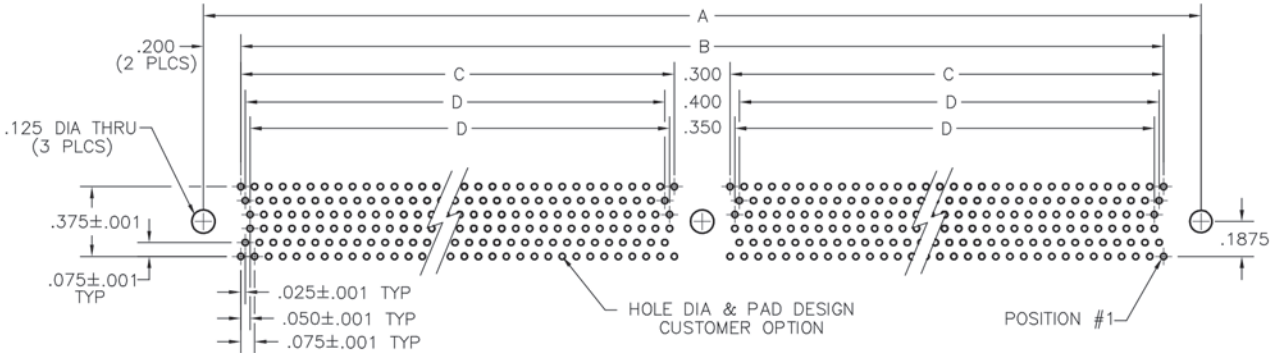
RM6 – RECOMMENDED BOARD LAYOUT
0.075" | 448 THROUGH 604 CONTACTS



DIMENSIONS				
SIZE	A	B	C	D
448	6.250	5.850	2.775	2.700
604	8.200	7.800	3.750	3.675



RIGHT ANGLE PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

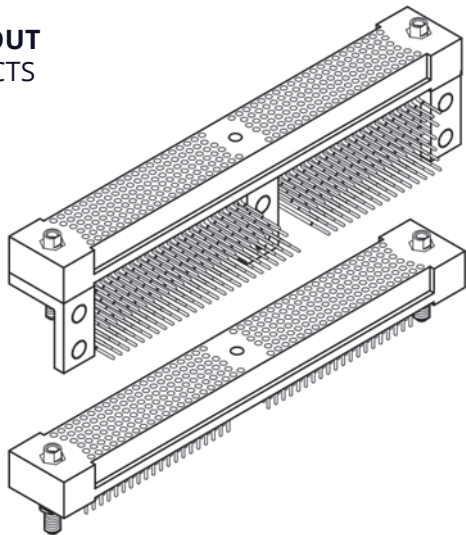


STRAIGHT PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

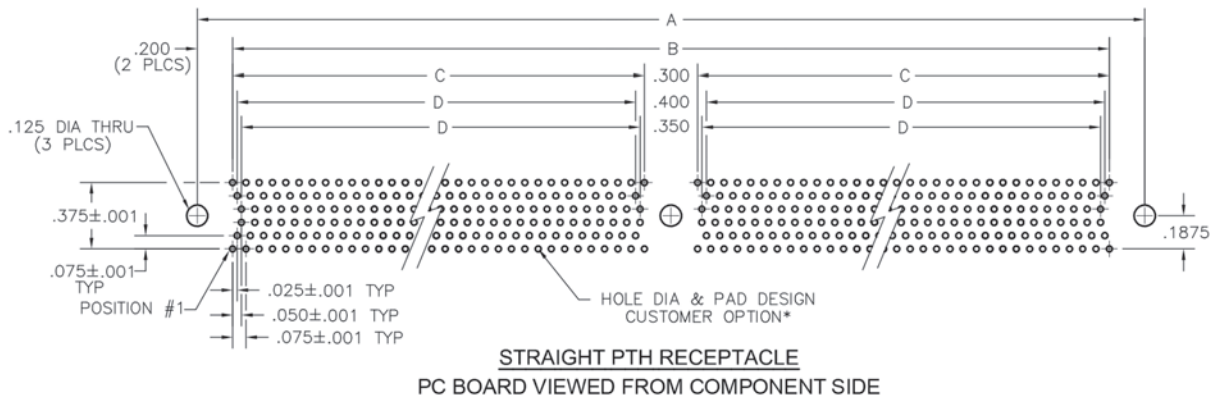
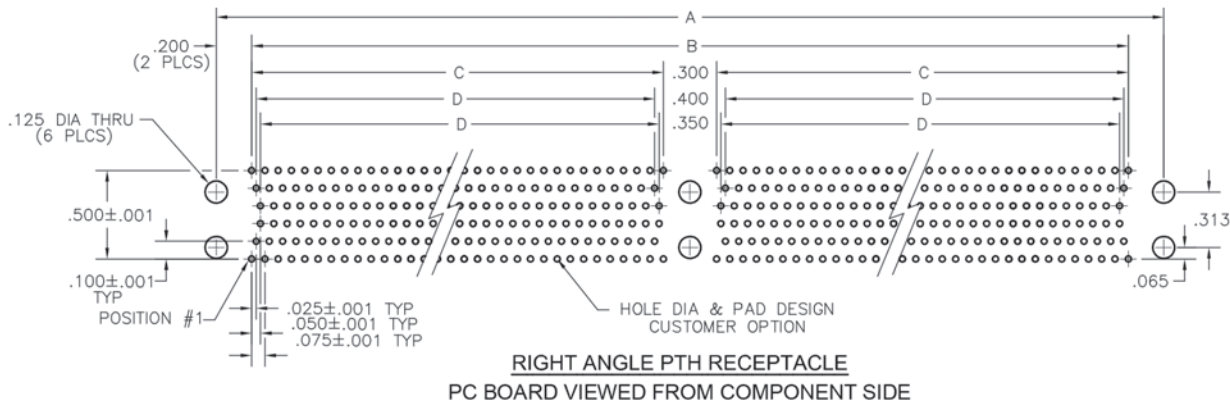
SIZE	CONTACT ID				SIZE	CONTACT ID			
448	448	445	442	343	340	337	336	333	330
	447	444	441	345	342	339	334	331	328
	446	443	440	344	341	338	335	332	329
	222	219	216	120	117	114	111	108	105
	223	220	217	121	118	115	110	107	104
	224	221	218	119	116	113	112	109	106
604	604	601	598	460	457	454	453	450	447
	603	600	597	462	459	456	451	448	445
	602	599	596	461	458	455	452	449	446
	300	297	294	159	156	153	150	147	144
	301	298	295	160	157	154	149	146	143
	302	299	296	158	155	152	151	148	145

SIX ROW – RIGHT ANGLE PTH RCPT STRAIGHT PTH RCPT

RM6 – RECOMMENDED BOARD LAYOUT 0.075" | 448 THROUGH 604 CONTACTS



DIMENSIONS				
SIZE	A	B	C	D
448	6.250	5.850	2.775	2.700
604	8.200	7.800	3.750	3.675



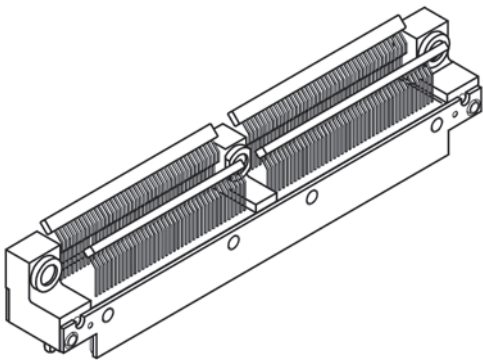
*COMPLIANT TERMINATIONS PCB REQUIREMENTS:
Board Material: FR-4 w/ 1.0 oz. copper
Minimum nominal board thickness: .062"
Drilled hole: .0319"-.0339"
Copper plating thickness: .0010" minimum
Tin-lead plating thickness: .0006" maximum
Electroplated tin-lead composition: 63/37 (Sn/Pb)
Finished hole diameter: .028"±.002"

SIZE	CONTACT ID				SIZE	CONTACT ID			
448	225	228	231	330	333	336	337	340	343
	226	229	232	328	331	334	339	342	345
	227	230	233	329	332	335	338	341	344
	3	6	9	105	108	111	114	117	120
	2	5	8	104	107	110	115	118	121
	1	4	7	106	109	112	113	116	119
604	442	445	448	443	446	449	450	453	456
	444	447	447	445	448	451	456	459	462
	440	443	446	446	449	452	455	458	461
	3	6	9	144	147	150	153	156	159
	2	5	8	143	146	149	154	157	160
	1	4	7	145	148	151	152	155	158

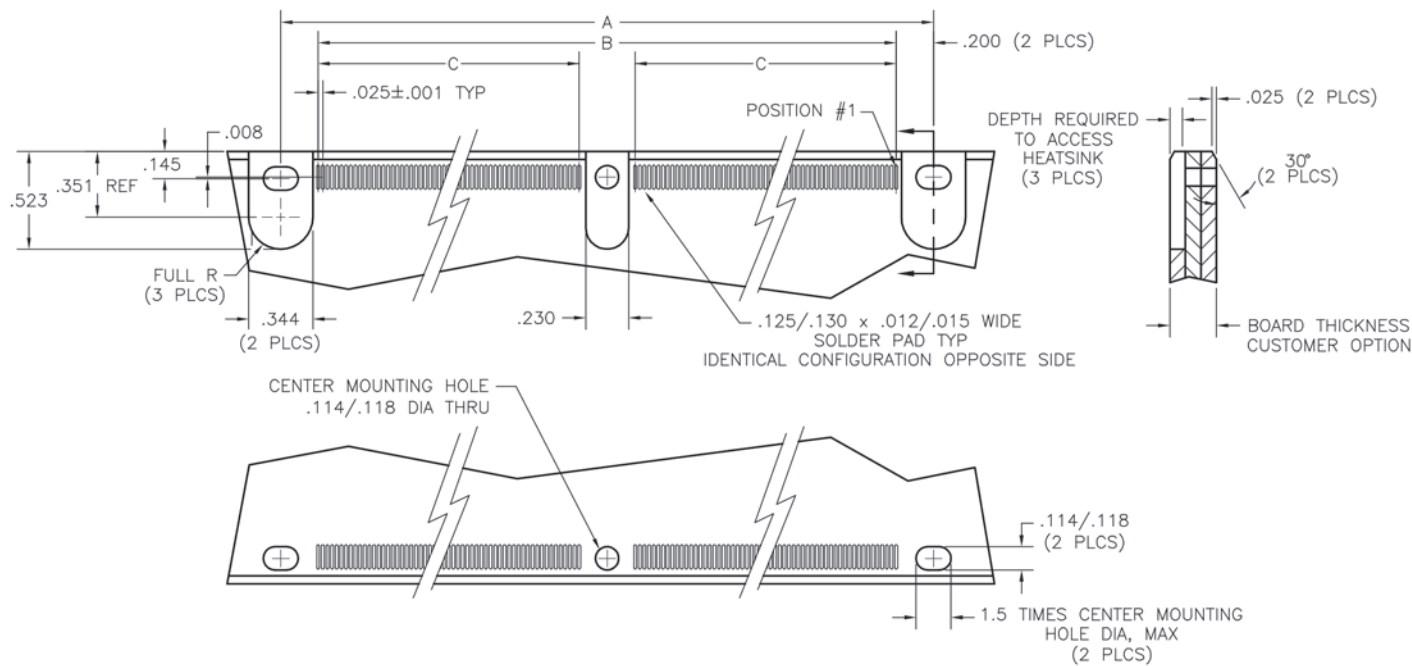
SIX ROW – STRAIGHT SMT PLUG

RM6 – RECOMMENDED BOARD LAYOUT

0.075" | 448 THROUGH 604 CONTACTS



DIMENSIONS			
SIZE	A	B	C
448	6.250	5.850	2.775
604	8.200	7.800	3.750



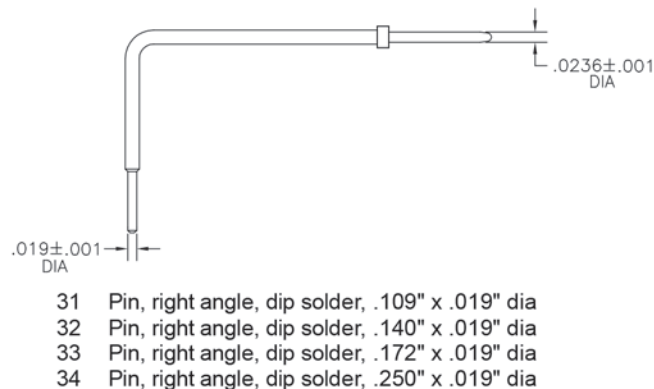
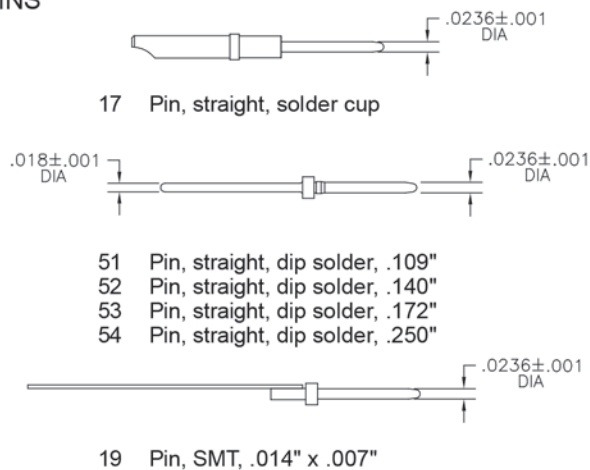
SURFACE MOUNT PLUG

SIZE	CONTACT ID										SIZE	CONTACT ID									
448	C224	C448									604	C302	C604								
	C223	C447										C301	C603								
	C222	C446										C300	C602								
	C221	C445										C299	C601								
	C220	C444										C298	C600								
	C117	C341																			
	C116	C340																			
	C115	C339																			
	C114	C338																			
448	C113	C337									604										
448	C112	C336									604										
448											604										
448											604										

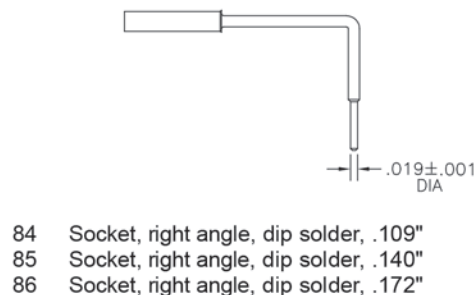
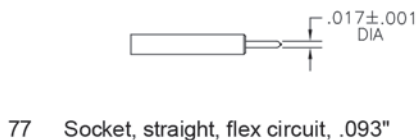
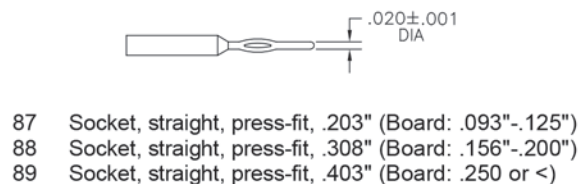
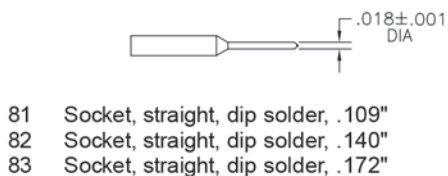
CONTACTS SIX ROW

Pins and Sockets

PINS



SOCKETS



SPECIFICATIONS – STACKABLE COMPLIANT PIN CONNECTORS

MATERIALS AND FINISHES*

CONTACTS:	BeCu, per ASTM-B768 (BeCu C17410 brush alloy 174).
CONTACT FINISHES:	Gold plate per MIL-G-45204 over nickel plating per IAW QQ-N-290.
MOLDED INSULATORS:	Glass filled polyphenylene sulfide (PPS) per MIL-M-24519.
SCREWS:	Stainless steel per ASTM-A-582, passivated per ASTM-A-967.
JACKSOCKETS:	Stainless steel per ASTM A 582/A582M-, passivated per ASTM-A967, SAE AMS-QQ-P-35
GUIDE PINS, GUIDE SOCKETS:	Stainless steel per ASTM A 582/A582M-, passivated per ASTM-A967, SAE AMS-QQ-P-35
GUIDE SOCKETS, POLARIZED D TYPE:	BeCu per ASTM-B-196, ASTM-B-197, nickel plated per QQ-N-290.
CONNECTOR MARKINGS:	Per MIL-C-55302. Additionally, end row contact numbers are identified on the mating face of the connector and the pin #1 locator identified on the side of the connector base.
TOLERANCES:** <i>(Unless otherwise specified)</i>	Angles: $\pm 5^{\circ}$ Decimals: $\pm 0.010''$; Fractions: $\pm 1/64''$

NOTES

Molex can manufacture special configurations for your exact specifications.
* = Reference the above listed specifications or an equivalent industry standard when applicable

PERFORMANCE REFERENCE STACKABLE COMPLIANT PIN CONNECTORS (075)

Reference modified MIL-C-55302, MIL-C-28859, MIL-STD-2166 and ANSI/EIA-616.

CONTACT

CURRENT RATING: 3 amperes

OPERATING

TEMPERATURE: -65° to +125° C or -85° to +257° F

DWV TEST VOLTAGE: 750V (RMS), 60 Hz at sea level

INSULATION

RESISTANCE: 5,000 megohms minimum at 500 VDC

DURABILITY: 500 connector mating cycles

CONTACT

RESISTANCE: 3 to 5 milliohms (contact length dependent)

CONTACT

ENGAGEMENT FORCE: 4.0 oz (113 g) maximum with 0.0246" diameter test pin

CONTACT

SEPARATION FORCE: 0.5 oz (14 g) minimum with 0.0226" diameter test pin

TOTAL

MATING FORCE: Maximum, 4.0 oz (113 g) X number of contacts
Average 2.5 oz (70 g) X number of contacts

COMPLIANT

INSERTION AND

REMOVAL FORCES: Maximum insertion force – 22.5 pounds (10.22 Kg)
Minimum retention force after conditioning – 4.5 pounds (2.04 Kg)

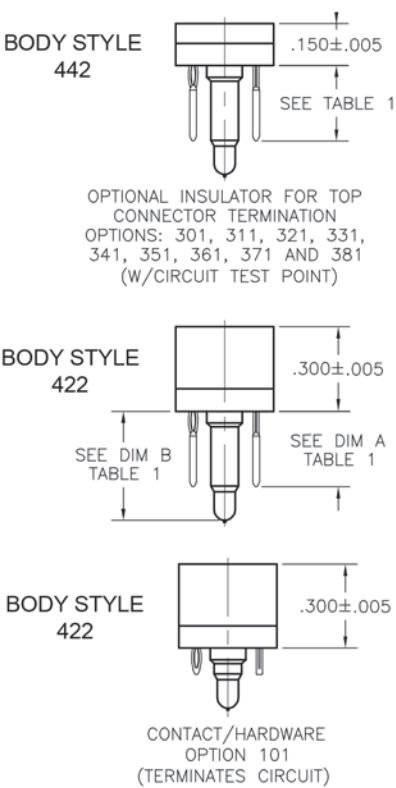
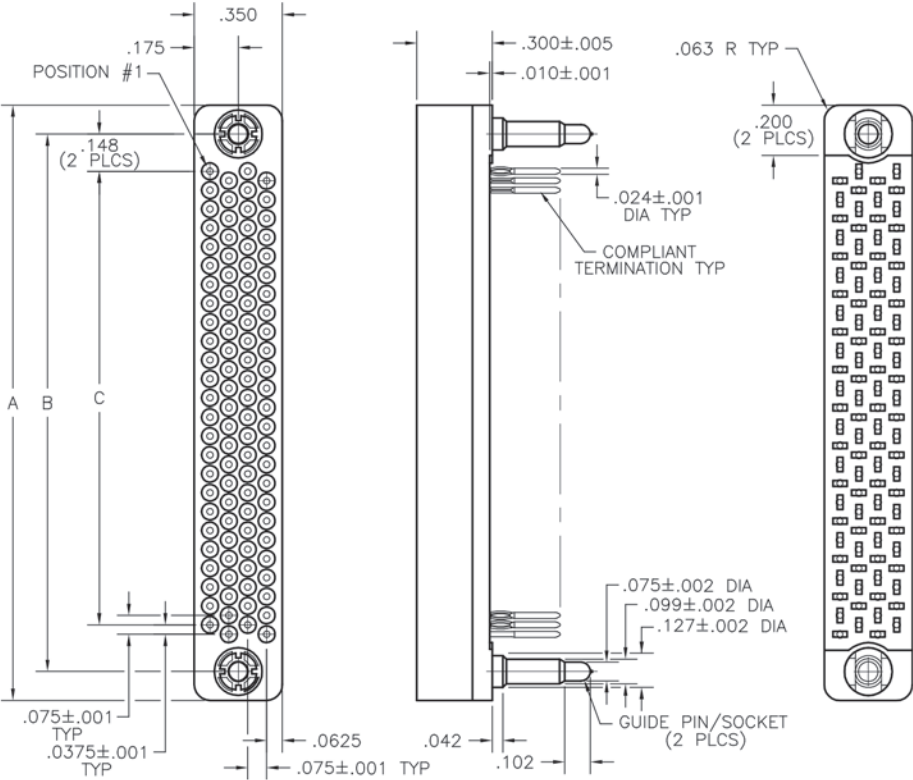
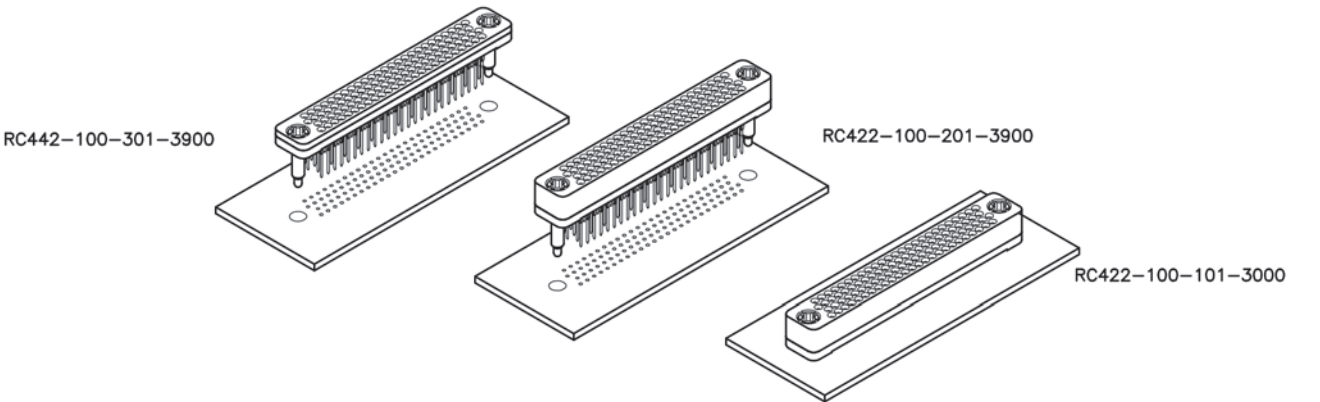
SUGGESTED BOARD

AND PLATED THROUGH-

HOLE REQUIREMENTS: Board material – FR-4 with 1.0 oz copper
Minimum board thickness – .058"
Drilled Hole – .0319" - .0339"
Copper plating thickness – .0010" minimum
Tin-lead plating thickness – .0003" minimum
Electroplated tin-lead composition – 63/37 (Sn/Pb)
Finished hole diameter – .028" ±.002

FOUR ROW – PRESS-FIT STACKABLE

RC4
0.075" | 28 THROUGH 300 CONTACTS



DIMENSIONS			
SIZE	A	B	C
28	1.014	.784	.450
52	1.464	1.234	.900
76	1.914	1.684	1.350
100	2.364	2.134	1.800
128	2.889	2.659	2.325
152	3.339	3.109	2.775
200	4.239	4.009	3.675
252	5.214	4.984	4.650
300	6.114	5.884	5.550

TABLE 1		
CONTACT TERMINATION	CONTACT	HARDWARE
	A	B
201, 301	.270	.370
211, 311	.300	.400
221, 321	.400	.500
231, 331	.500	.600
241, 341	.700	.800
251, 351	.800	.900
261, 361	.900	1.000
271, 371	.600	.700
281, 381	1.000	1.100
101	.095	.195

LEAD CONFIGURATION OPTIONS

RC422-100-211-4000
XXXXX-XXX-XXX-XXXX

SERIES

RC Press fit stackable PC connector

BODY

BODY STYLE:

- 422 4 Row receptacle
- 442 4 Row low profile receptacle (Requires 3XX contact)

SIZE

028, 052, 076, 100, 128, 152, 200, 252, 300

CONTACTS

TYPE CONTACTS/TERMINATIONS:

- 101 Socket contact, press fit tail .095" (Use with body style 422 only)
- 201 Socket contact, press fit tail .270" (Use with body style 422 only)
- 211 Socket contact, press fit tail .300" (Use with body style 422 only)
- 221 Socket contact, press fit tail .400" (Use with body style 422 only)
- 231 Socket contact, press fit tail .500" (Use with body style 422 only)
- 241 Socket contact, press fit tail .700" (Use with body style 422 only)
- 251 Socket contact, press fit tail .800" (Use with body style 422 only)
- 261 Socket contact, press fit tail .900" (Use with body style 422 only)
- 271 Socket contact, press fit tail .600" (Use with body style 422 only)
- 281 Socket contact, press fit tail 1.000" (Use with body style 422 only)
- 301 Press fit tail .270" (Use with body style 442 or 422)
- 311 Press fit tail .300" (Use with body style 442 or 422)
- 321 Press fit tail .400" (Use with body style 442 or 422)
- 331 Press fit tail .500" (Use with body style 442 or 422)
- 341 Press fit tail .700" (Use with body style 442 or 422)
- 351 Press fit tail .800" (Use with body style 442 or 422)
- 361 Press fit tail .900" (Use with body style 442 or 422)
- 371 Press fit tail .600" (Use with body style 442 or 422)
- 381 Press fit tail 1.000" (Use with body style 442 or 422)

HARDWARE

GUIDE HARDWARE

- 3000 Use with -101 contact
- 3900 Use with -201 or -301 contact
- 4000 Use with -211 or -311 contact
- 4100 Use with -221 or -321 contact
- 4200 Use with -231 or -331 contact
- 4300 Use with -241 or -341 contact
- 4400 Use with -251 or -351 contact
- 4500 Use with -261 or -361 contact
- 4600 Use with -271 or -371 contact
- 4700 Use with -281 or -381 contact

FIXED JACKSOCKET (to mate with RC cable only)

- 30FT Use with -101 contact
- 39FT Use with -201 or -301 contact
- 40FT Use with -211 or -311 contact
- 41FT Use with -221 or -321 contact
- 42FT Use with -231 or -331 contact
- 43FT Use with -241 or -341 contact
- 44FT Use with -251 or -351 contact
- 45FT Use with -261 or -361 contact
- 46FT Use with -271 or -371 contact
- 47FT Use with -281 or -381 contact

CONTACT/
TERMINATION
TYPES



101



- 201 251
- 211 261
- 221 271
- 231 281
- 241

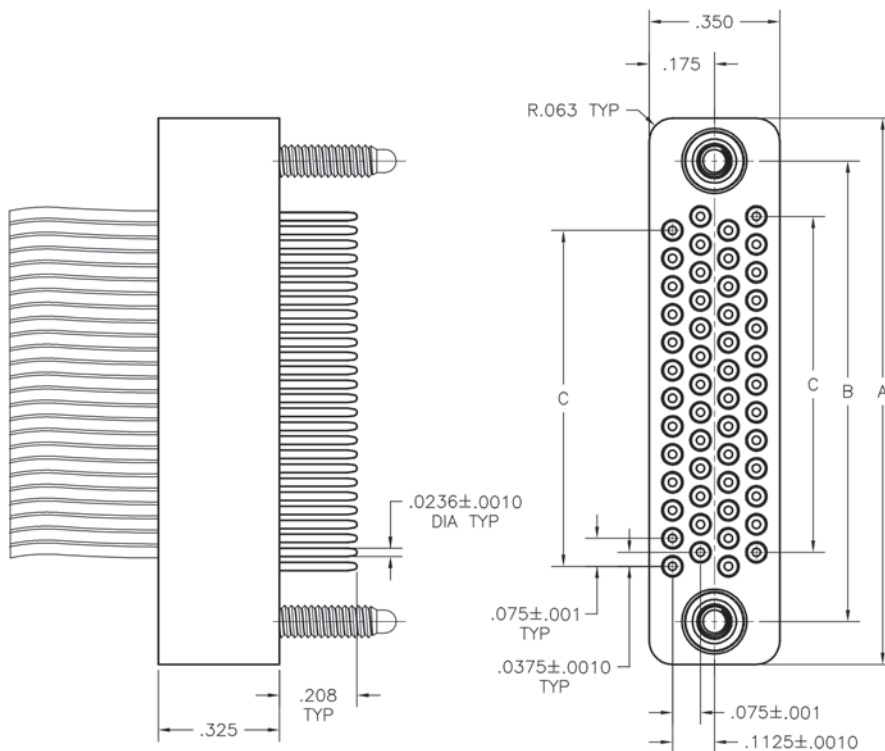
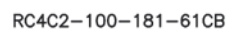


- 301 351
- 311 361
- 321 371
- 331 381
- 341

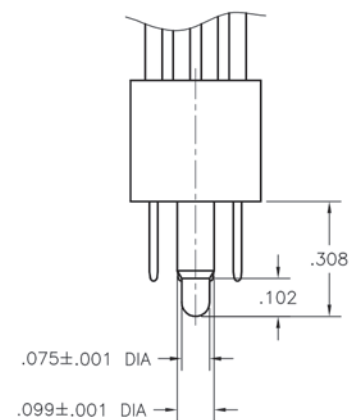
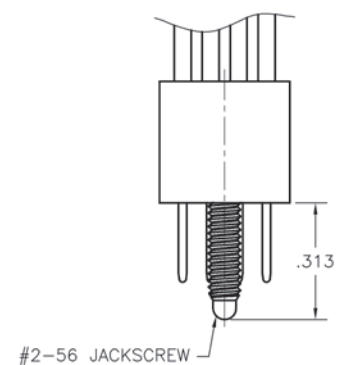
Minimum contact engagement from mating face (.305" insulator height)114"
Maximum contact engagement from mating face (.295" insulator height)214"
Minimum PWB thickness058"

4 Row Press Fit Stackable Tools Available:
Cap Removal Tool - AirBorn part number CDG10056
Contact Removal Tool - AirBorn part number CDG10057

0.075" | 28 THROUGH 152 CONTACTS



DIMENSIONS			
SIZE	A	B	C
28	1.014	.784	.450
52	1.464	1.234	.900
76	1.914	1.684	1.350
100	2.364	2.134	1.800
128	2.889	2.659	2.325
152	3.339	3.109	2.775

HARDWARE STYLE
57

HARDWARE STYLE
61

LEAD CONFIGURATION OPTIONS

RC4C2-100-181-61CB
XXXXX-XXX-XXX-XXXX

SERIES

RC Press fit stackable PC connector

BODY

BODY STYLE:
4C2 4 Row plug with potting well

SIZE

028, 052, 076, 100, 128, 152

CONTACTS

TYPE CONTACTS/TERMINATIONS:
111 Pin, straight, solder cup
151 Pin, straight, flex circuit
181 Pin, straight, stranded wire (24-26 awg)
191 Pin, straight, stranded wire (28-30 awg)

HARDWARE

STYLE OF HARDWARE:
00 None
57 Guide pins, non-polarized
61 Hex turning jackscrews (must have fixed jacksocket hardware on board connector)

WIRE

00 None (solder cup or flex)
XX See Wire Codes at right

WIRE CODES					
TYPE and COLOR			LENGTH		
Code	Size	Color	Code	Length (+1"/-0")	
Mil-W-16878/4					
C	24 awg	Ten repeating	A	6"	
D	24 awg	White	B	12"	
E	26 awg	Ten repeating	C	18"	
F	26 awg	White	D	24"	
G	28 awg	Ten repeating	E	30"	
H	28 awg	White	F	36"	
J	30 awg	Ten repeating	G	42"	
K	30 awg	White	H	48"	
Mil-W-22759/33					
N	24 awg	Ten repeating	J	54"	
P	24 awg	White	K	60"	
R	26 awg	Ten repeating	L	66"	
S	26 awg	White	M	72"	
T	28 awg	Ten repeating	N	84"	
U	28 awg	White	P	96"	
V	30 awg	Ten repeating	R	108"	
W	30 awg	White	S	120"	

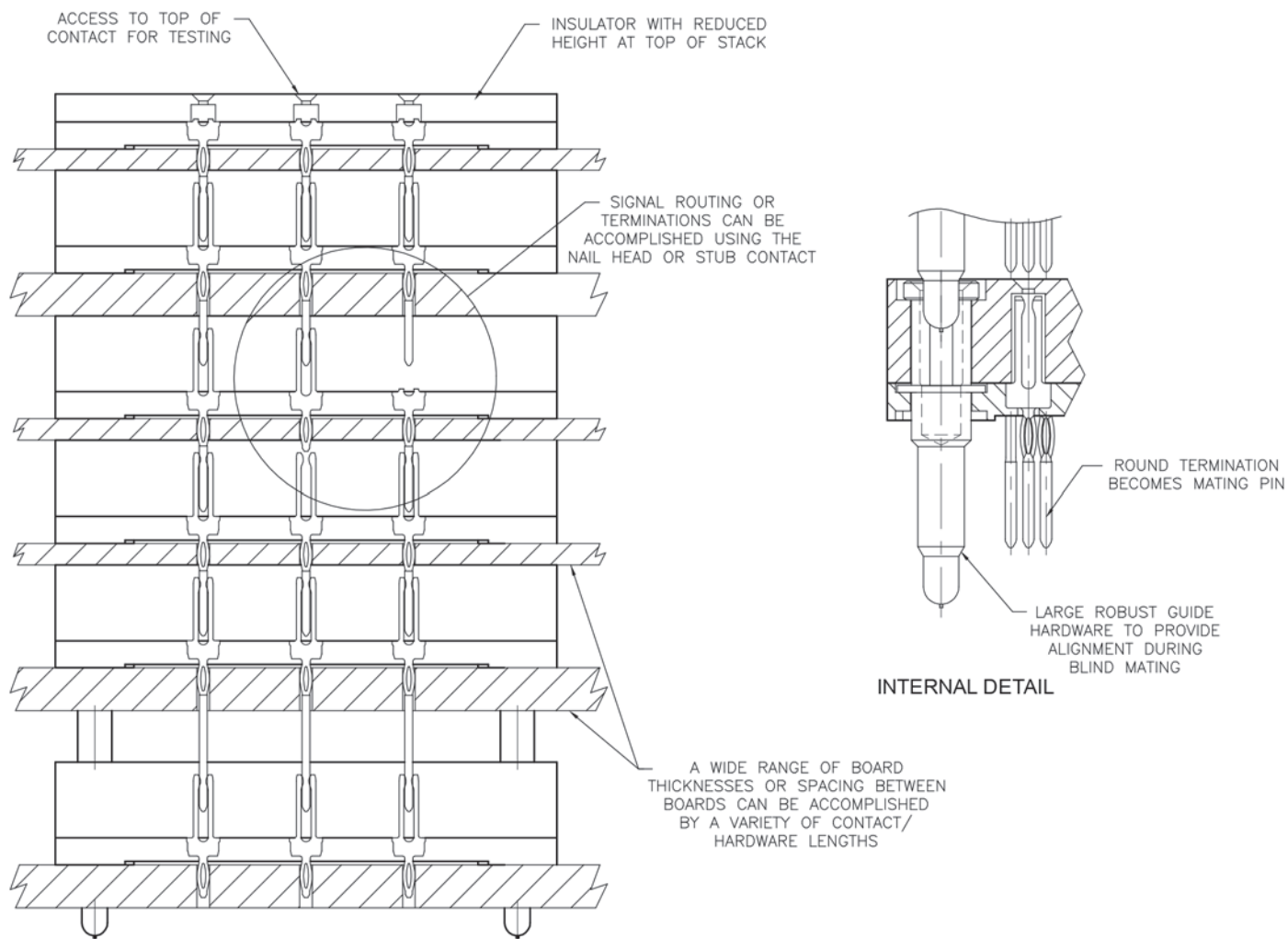
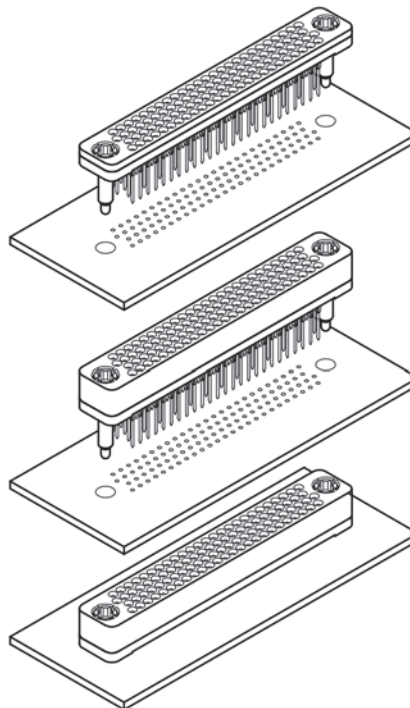
Part number example:
RC4C2-100-181-61CB
Type and Color Length

- Ten repeating colors:
- Black
 - Brown
 - Red
 - Orange
 - Yellow
 - Green
 - Blue
 - Violet
 - Grey
 - White

FOUR ROW – PRESS-FIT STACKABLE

RC4 – TYPICAL APPLICATIONS

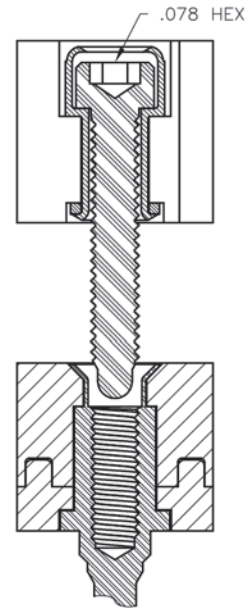
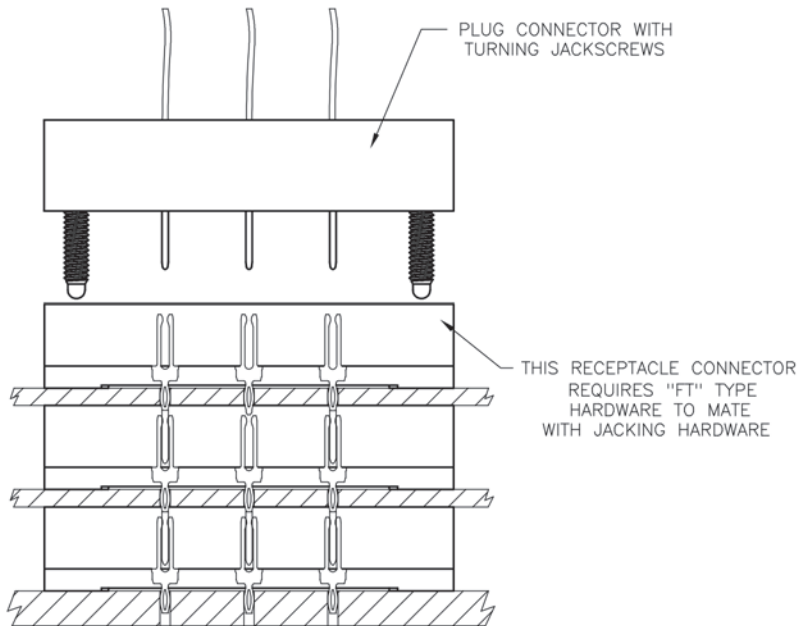
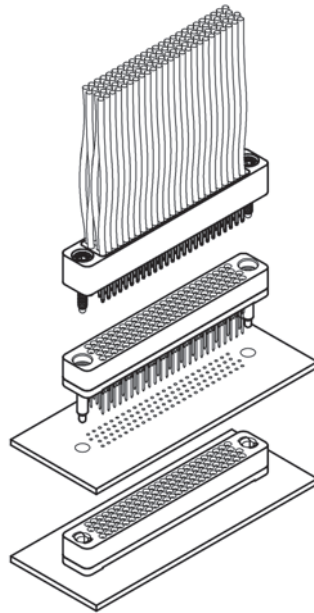
0.075" | 28 THROUGH 300 CONTACTS



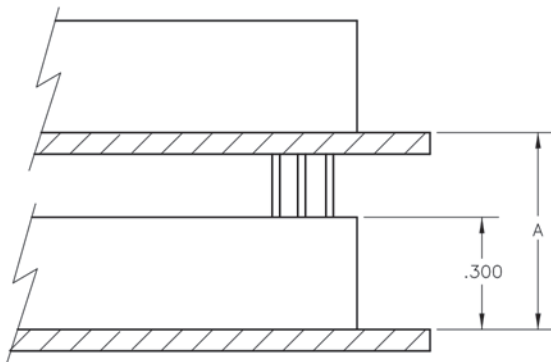
FOUR ROW – PRESS-FIT STACKABLE WITH CABLE MATE

RC4 – TYPICAL APPLICATIONS

0.075" | 28 THROUGH 152 CONTACTS



INTERNAL DETAIL



Determine Required Termination Lead Length:

To calculate required termination lead length, use the example below. Measurements listed are in inches.

Dimension A = .720

$.720 - .300$ (insulator height) = $.420$

$.420 + .114$ (minimum pin engagement) = $.534$

$.420 + .214$ (maximum pin engagement) = $.634$

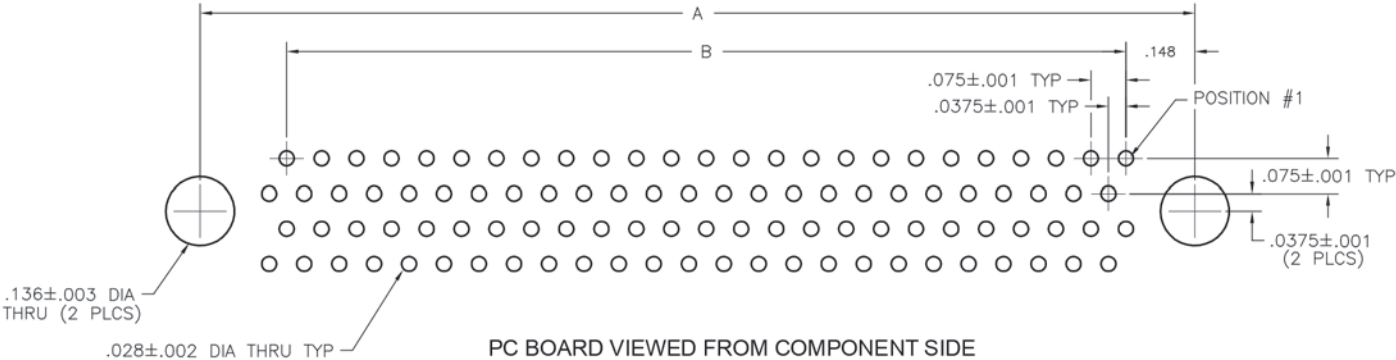
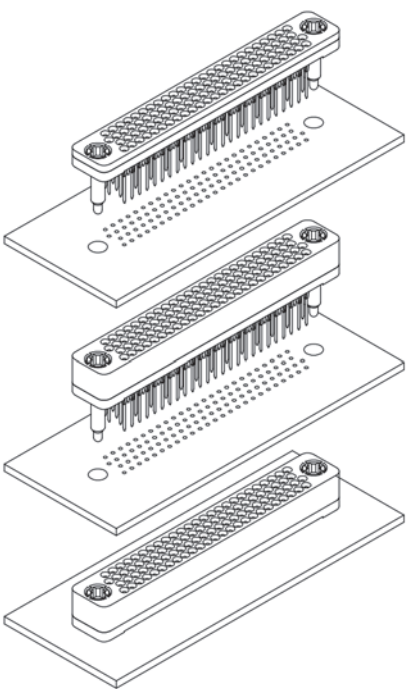
In this example, the termination option to choose is .600 lead length.

The contact termination option will be a length between the minimum and maximum pin engagement measurement. Contact lengths can be found on page R-86.

FOUR ROW – PRESS-FIT STACKABLE

RM4 – RECOMMENDED BOARD LAYOUT

0.075" | 28 THROUGH 300 CONTACTS



SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
28	7 6 5 4 3 2 1 14 13 12 11 10 9 8 21 20 19 18 17 16 15 28 27 26 25 24 23 22	100	25 24 23 3 2 1 50 49 48 28 27 26 75 74 73 53 52 51 100 99 98 78 77 76	200	50 49 48 3 2 1 100 99 98 53 52 51 175 174 173 103 102 101 200 199 198 178 177 176
	13 12 11 3 2 1 26 25 24 16 15 14 39 38 37 29 28 27 52 51 50 42 41 40		32 31 30 3 2 1 64 63 62 35 34 33 96 95 94 67 66 65 128 127 126 99 98 97		63 62 61 3 2 1 126 125 124 66 65 64 189 188 187 129 128 127 252 251 250 192 191 190
	19 18 17 3 2 1 38 37 36 22 21 20 57 56 55 41 40 39 76 75 74 60 59 58		38 37 36 3 2 1 76 75 74 41 40 39 114 113 112 79 78 77 152 151 150 117 116 115		75 74 73 3 2 1 150 149 148 78 77 76 225 224 223 153 152 151 300 299 298 228 227 226

DIMENSIONS		
SIZE	A	B
28	.784	.450
52	1.234	.900
76	1.684	1.350
100	2.134	1.800
128	2.859	2.325
152	3.109	2.775
200	4.009	3.675
252	4.984	4.650
300	5.884	5.550

SPECIFICATIONS – MATERIALS AND FINISHES*

PIN CONTACTS:	Brass C26000, copper alloy C18080, or BeCu C17200
SOCKET CONTACTS:	BBeCu 17200, BeCu C17410, or copper alloy C18080
CONTACT FINISHES:	Selective gold over 50 microinch minimum nickel plating in contact mating areas Option 1: 50 microinch minimum gold Option 2: 30 microinch minimum gold
MOLDED INSULATORS:	Glass filled liquid crystal polymer (LCP) per Mil-M-24519
HARDWARE:	Corrosion-resistant steel per ASTM-A-582/A582M; Passivated per ASTM-A-967, SAE AMS-QQ-P-35
SOLDER BALLS:	Option 1: Sn63/Pb37 eutectic solder Option 2: Lead free Sn96.5/Ag3.0/Cu0.5
TOLERANCES: (Unless otherwise specified)	Angles: $\pm 5^{\circ}$ Decimals: $\pm 0.010''$ Fractions: $\pm 1/64''$

NOTES

Molex can manufacture special configurations for your exact specifications.
* = Reference the above listed specifications or an equivalent industry standard when applicable

creating connections for life

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