

Welcome to the World of AirBorn Interconnect Solutions

JULY 2009

AirBorn has been manufacturing high reliability interconnect systems for more than 45 years with leading-edge, innovative technology that is more reliable and better-performing than practically all other alternatives.

Our advanced technologies, experienced design support, incomparable lead times and personalized customer service and support provide customers with complete solutions to a vast array of highly specialized design requirements in diverse markets and applications.

You will find in this catalog technical drawings and specification information that will help you solve your interconnection needs from the design stage through production specification.

The products in this catalog are organized by the AirBorn part number assigned to them.

Each connector part number identifies five elements:

- AirBorn Series
- Body
- Size (number of contacts)
- Contact Type
- Hardware Type

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

If you do not find a particular connector size or option, please contact AirBorn for further assistance. AirBorn can manufacture special configurations for your exact specifications.

When everything matters, go AirBorn.

www.AirBorn.com

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"R" SERIES - .075" MIL-C-55302



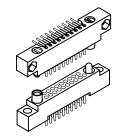
<u>Daughterboard to</u> Motherboard or Chassis

Right angle plug mating to straight receptacle.

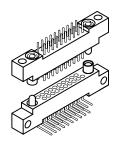
Right angle receptacle mating to straight plug.

Right angle plug mating to straight receptacle.

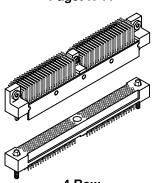
Right angle receptacle mating to straight plug.



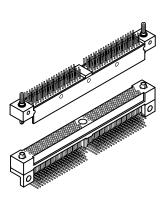
2 Row Sizes: 10 thru 100 Page: R-9



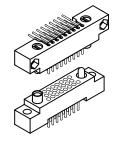
2 Row Sizes: 10 thru 100 Page: R-11



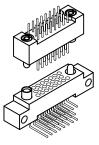
4 Row Sizes: 86 thru 404 Page: R-43



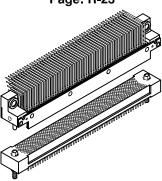
4 Row Sizes: 86 thru 404 Page: R-45



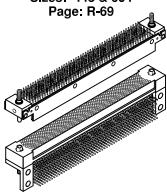
3 Row Sizes: 11 thru 206 Page: R-21



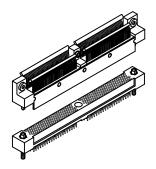
3 Row Sizes: 11 thru 206 Page: R-23



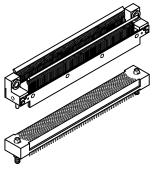
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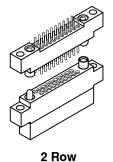
4 Row Sizes: 86 thru 404 Page: R-47



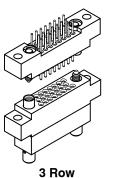
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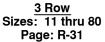
Surface mount plug mating to straight receptacle.



Sizes: 10 thru 100 Page: R-15



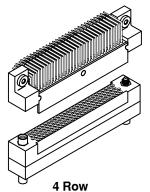
Sizes: 11 thru 80 Page: R-27



Cable or Board mating to Crimp Removable

Straight plug mating to crimp removable receptacle.

Crimp removable plug mating to straight receptacle



Sizes: 86 & 110 Page: R-49



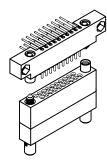
4 Row Sizes: 86 & 110 Page: R-51

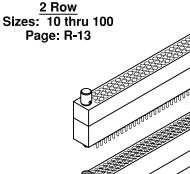
Crimp removable plug mating to right angle receptacle.

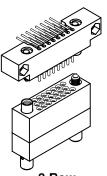


Right angle plug mating to crimp removable receptacle.

Crimp removable plug mating to crimp removable receptacle.



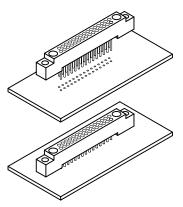




3 Row Sizes: 11 thru 80 Page: R-25

PC Board Stackable

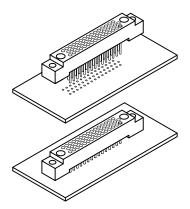
Plated thru hole stackable or connector saver.



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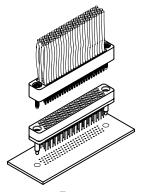


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Compliant pin (press fit) stackable.

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"R" Series

.075" Rectangular Plastic Board Level Connectors



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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-B196, ASTM B 197/B 197M-, or brass per

ASTM B 16/B 16M or ASTM-B134

Contact Finish: Gold plate per ASTM B 488-, SAE AMS 2422, or localized finish per MIL-C-55302

Solder: Sn/Pb Alloy - 63% Tin, 37% Lead composition (☑).

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: Fractions = $\pm 1/64$ "

Decimals = \pm .010" Angles = \pm 5°

Note: AirBorn can manufacture special configurations for your exact specifications.

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



Performance Reference MIL-C-55302

Contact Rating: 3-amperes (2 amperes for .016 diameter)

Solderability: Terminals (except wire wrap [®], crimp and stackables) 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:	750 V, RMS, 60 Hz @ sea level 250 V, RMS, 60 Hz @ 70,000 feet	#3001
Insulation Resistance:	5,000 megohms minimum @ 500 VDC	#3003
Durability:	500 connector mating cycles	
Vibration:	Mated connectors, Test condition III	#2005
Salt Spray:	Mated connectors, Test condition B	#1001
Shock:	Mated connectors, Test condition G	#2004
Humidity:	Test Type II, except steps 7A and 7B not required	#1002
Temperature Cycling:	Mated connectors, Test condition A	#1003

Contact Resistance: .015 ohms max (interface measurement) #3004

@ 3 amperes

Connector 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 .010" to .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. When the size, for example, is less than 100, indicate as 010, 080, etc.

Series:

This will always be a two letter designator, and will identify the connector series. All .075" connectors begin with the letter "R". The second letter designates the various styles of .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.

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. AirBorn, Inc. will provide individual code numbers as needed.

Note:

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



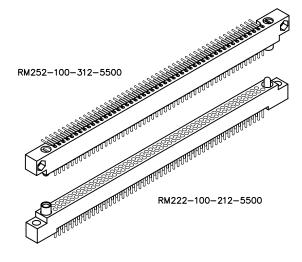
$2 \cdot \text{ROW}$

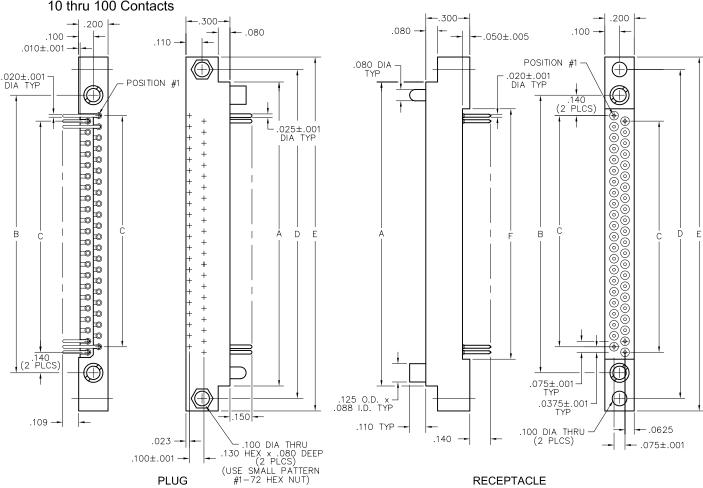
Daughterboard to **Motherboard** or Chassis

.075"

RM₂

10 thru 100 Contacts





RECEPTACLE

	DIMENSIONS						
SIZE	Α	В	С	D	Ε	F	
10	.797	.617	.300	.967	1.137	.432	
20	1.172	.992	.675	1.342	1.512	.807	
30	1.547	1.367	1.050	1.717	1.887	1.182	
40	1.922	1.742	1.425	2.092	2.262	1.557	
50	2.297	2.117	1.800	2.467	2.637	1.932	
60	2.672	2.492	2.175	2.842	3.012	2.307	
70	3.047	2.867	2.550	3.217	3.387	2.682	
80	3.422	3.242	2.925	3.592	3.762	3.057	
90	3.797	3.617	3.300	3.967	4.137	3.432	
100	4.172	3.992	3.675	4.342	4.512	3.807	



PLUG: RM252-100-312-5500 RECEPTACLE: RM222-100-212-5500

xxxxx-xxx-xxx-xxxxx **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:** 2 Plug, right angle, with mounting ears Receptacle, straight with mounting ears Plug, right angle, without mounting ears 4 Receptacle, straight without mounting ears **BODY MATERIAL: BODY MATERIAL:** 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: Pin, right angle, dip solder, .109" x .020" dia Socket, straight, dip solder, .109" x .020 dia Pin, right angle, dip solder, .140" x .020" dia Socket, straight, dip solder, 140" x 020 dia 21 32 33 Pin, right angle, dip solder, .172" x .020" dia 22 Socket, straight, dip solder, 172" x .020 dia Pin, right angle, dip solder, 109" x .016" dia 23 Socket, straight, dip solder, .250" x .020 dia Pin, right angle, dip solder, .140" x .016" dia 24 Socket, straight, solder cup 35 Socket, straight, flex circuit, .093" x .017 dia Pin, right angle, dip solder, .172" x .016" dia 25 36 Socket, straight, wire wrap®, .500" x .018 square Socket, straight, wire wrap®, .375" x .018 square Pin, right angle, dip solder, .250" x .020" dia 26 27 Socket, straight, wire wrap®, 625" x .018 square 28 29 Socket, connector saver, .150" x .025" dia Socket, straight, dip solder, .140" x .016" dia 50 Socket, straight, dip solder, 172" x .016" dia 51 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) Socket, straight, press fit, .323" (Board .156"-.200" thk) 65 Socket, straight, press fit, 403" (Board 250"+ thk) 66 PLATING OPTIONS: PLATING OPTIONS: Gold plated termination Gold plated termination Pre-tinned termination, SnPb alloy 2 Pre-tinned termination, SnPb alloy (dip solder options only) ⊠ Pre-tinned termination, SAC305 alloy 3 Pre-tinned termination, SAC305 alloy (dip solder options only) HARDWARE STYLE OF HARDWARE: STYLE OF HARDWARE: (See R-41 & R-42 for all options) (See R-41 & R-42 for all options) 0256 None 0256 None Guide set Guide set 57 Two guide pins 57 Two guide pins Two guide sockets 58 58 Two guide sockets 29 Fixed jackset 29 Fixed jackset Fixed jackset, reversed Fixed jackset, reversed 30 30 Two fixed jackscrews 19 Two fixed jackscrews 19 20 Two fixed jacksockets 20 Two fixed jacksockets Hex turning jackset, 200" 59 Hex turning jackset, 200" 60 Hex turning jackset, reversed, 200" 60 Hex turning jackset, reversed, .200" Two hex turning jackscrews, 200" 61 Two hex turning jackscrews, 200" 61 62 Two hex turning jacksockets, 200" 62 Two hex turning jacksockets, 200" 64 Turning jackset, 490" 64 Turning jackset, .490" Turning jackset, reversed, 490" 65 Turning jackset, reversed, .490" 65 66 Two turning jackscrews, 490" 66 Two turning jackscrews, 490" Two turning jacksockets, .490" 67 Two turning jacksockets, .490" 67 POLARIZATION: POLARIZATION 00 thru 68 are special identifiers, see R-38 thru 68 are special identifiers, see R-38 01 01 Same configuration as 01 without Loctite® Same configuration as 01 without Loctite® 70 70 (To be keyed by customer) (To be keyed by customer) **OPTIONS** Bond #1-72 small pattern hex nuts into mounting ears



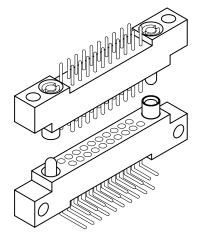
$2 \cdot \mathsf{ROW}$

Motherboard or Chassis to Daughterboard

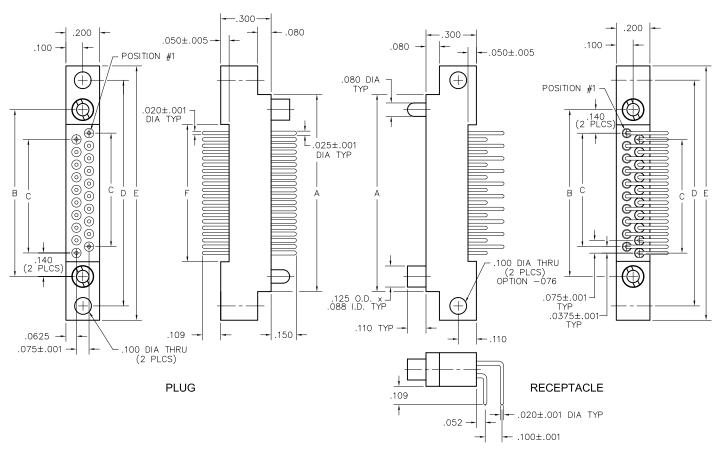
.075"

RM2

10 thru 100 Contacts



RM262-020-442-5500-076



RM212-020-102-5500

DIMENSIONS						
SIZE	Α	В	С	D	Ε	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



PLUG: RM212-020-102-5500

RECEPTACLE: RM262-020-442-5500-076

XXXXX-XXX-XXX-XXX **PLUG RECEPTACLE**

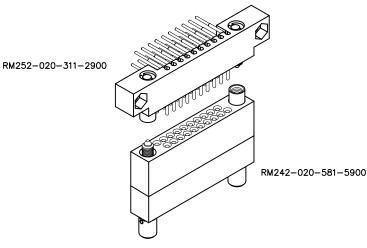
LUG	
SEI	RIES
M .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector
BC	DDY
2-Row	2 2-Row
BODY STYLE: Plug, straight, with mounting ears Plug, straight, without mounting ears	BODY STYLE: 6 Receptacle, right angle, with mounting ears 8 Receptacle, right angle, without mounting ears
BODY MATERIAL: Polyphenylene sulfide (PPS)	BODY MATERIAL: 2 Polyphenylene sulfide (PPS)
Si	ZE
010, 020, 030, 040, 050, 060, 070, 080, 090, 100	010, 020, 030, 040, 050, 060, 070, 080, 090, 100
CONT	TACTS
TYPE CONTACTS/TERMINATIONS: Pin, straight, dip solder, .109" x .020" dia Pin, straight, solder cup Pin, straight, dip solder, .140" x .020" dia Pin, straight, dip solder, .172" x .020" dia Pin, straight, dip solder, .250" x .020" dia Pin, straight, dip solder, .250" x .020" dia Pin, straight, flex, .093" x .017" dia	TYPE CONTACTS/TERMINATIONS: 44 Socket, right angle, dip solder, .109" x .020" dia 45 Socket, right angle, dip solder, .140" x .020" dia 46 Socket, right angle, dip solder, .172" x .020" dia 47 Socket, right angle, dip solder, .250" x .020" dia
PLATING OPTIONS: Gold plated termination Pre-tinned termination, SnPb alloy (dip solder options only) ⊠ Pre-tinned termination, SAC305 alloy (dip solder options only)	PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy ⊠ 3 Pre-tinned termination, SAC305 alloy
HARD	DWARE
STYLE OF HARDWARE: (See R-41 & R-42 for all options) 256 None 5 Guide set 7 Two guide pins 8 Two guide sockets 9 Fixed jackset 10 Fixed jackset, reversed 10 Two fixed jackscrews 11 Two fixed jacksockets 12 Hex turning jackset, .200" 12 Hex turning jackset, reversed, .200" 13 Two hex turning jackscrews, .200" 14 Turning jackset, .490" 15 Turning jackset, .490" 16 Two turning jackscrews, .490" 17 Two turning jackscrews, .490" 18 Two turning jackscrews, .490" 19 Two turning jackscrews, .490" 10 Two turning jackscrews, .490" 11 Two turning jackscrews, .490" 12 Two turning jackscrews, .490" 13 Two turning jackscrews, .490" 14 Turning jackscrews, .490" 15 Two turning jackscrews, .490" 16 Two turning jackscrews, .490" 17 Two turning jackscrews, .490" 18 Two turning jackscrews, .490" 19 Colored Reserved Reserv	STYLE OF HARDWARE: (See R-41 & R-42 for all options) 0256 None 55 Guide set 57 Two guide pins 58 Two guide sockets 29 Fixed jackset 30 Fixed jackset, reversed 19 Two fixed jackscrews 20 Two fixed jacksockets 59 Hex turning jackset, .200" 60 Hex turning jackset, reversed, .200" 61 Two hex turning jackscrews, .200" 62 Two hex turning jackscokets, .200" 64 Turning jackset, .490" 65 Turning jackset, .490" 66 Two turning jackscrews, .490" 7 Two turning jackscrews, .490" POLARIZATION None 01 thru 68 are special identifiers, see R-38 70 Same configuration as 01 without Loctite ® (To be keyed by customer)
	TIONS
011	

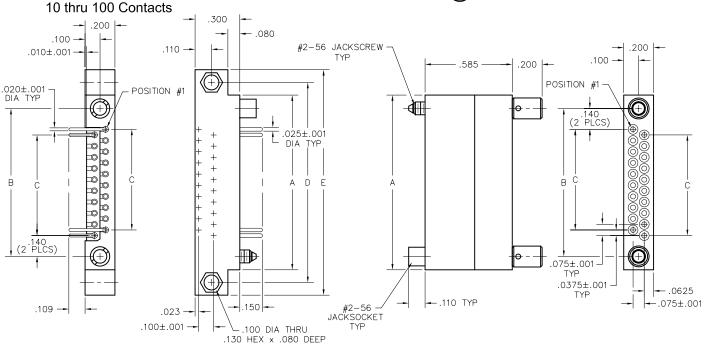


2 · ROW Board to Crimp Removable

.075"

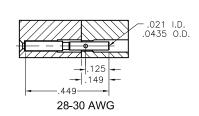
RM2





PLUG

(USE SMALL PATTERN #1-72 HEX NUT)
044 I.D. .027 I.D. .0435 O.D. .0435 O.D. .0435 O.D.



RECEPTACLE

NOTE:

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

(2 PLCS)

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	Α	В	С	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	



PLUG: RM252-020-311-2900 RECEPTACLE: RM242-020-581-5900

xxxxx-xxx-xxx-xxxxx

PLUG RECEPTACLE

FL	JG	חבי	CEPTACLE	1 1 !
	SE	RIES		
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector	
	В	ODY		
2	2-Row	2	2-Row	
5 7	BODY STYLE: Plug, right angle, with mounting ears Plug, right angle, without mounting ears	2 4	BODY STYLE: Receptacle, straight, with mounting ears Receptacle, straight, without mounting ears	
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)	
	Si	ZE		
	010, 020, 030, 040, 050, 060, 070, 080, 090, 10	0	010, 020, 030, 040, 050, 060, 070, 080, 090, 100	0
	CON	TACTS	s	
31 32 33 34	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .020" dia Pin, right angle, dip solder, .140" x .020" dia Pin, right angle, dip solder, .172" x .020" dia Pin, right angle, dip solder, .109" x .016" dia	00 57 58 59	TYPE CONTACTS/TERMINATIONS: Contacts not supplied Socket, straight, crimp removable (20-22 AWG)* Socket, straight, crimp removable (24-26 AWG)* Socket, straight, crimp removable (28-30 AWG)*	:

37	Pin, right angle, dip solder, .250" x .020" dia		
	PLATING OPTIONS:	1	PLATING OPTIONS:
1	Gold plated termination	0	No plating (use with Contact Option "00" only)
2	Pre-tinned termination, SnPb alloy ⊠	1	Gold plated termination
3	Pre-tinned termination, SAC305 alloy	-	

НΔ	RD	W۵	RE

	STYLE OF HARDWARE:	1	STYLE OF HARDWARE:	
	(See R-41 & R-42 for all options)		(See R-41 & R-42 for all options)	
0256	5 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:	1	POLARIZATION	
00	None	00	None	
01	thru 68 are special identifiers, see R-38	01	thru 68 are special identifiers, see R-38	
70	Same configuration as 01 without Loctite [®]	70	Same configuration as 01 without Loctite [®]	
	(To be keyed by customer)		(To be keyed by customer)	

OPTIONS

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

Pin, right angle, dip solder, .140" x .016" dia

Pin, right angle, dip solder, .172" x .016" dia

35

36

- 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.

^{*} Full compliment of crimp removable sockets packaged with connectors

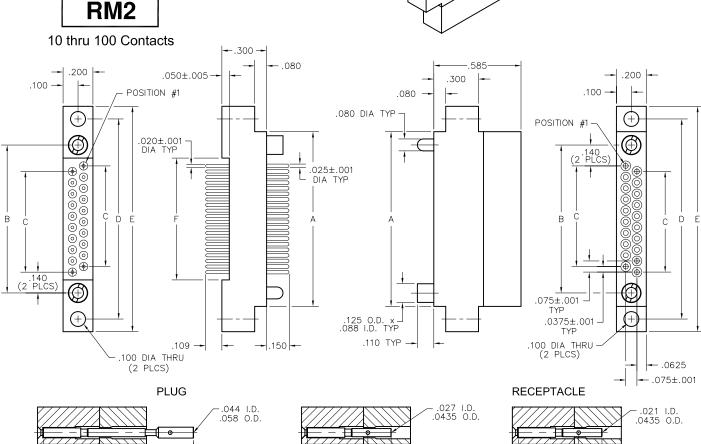


$2 \cdot \mathsf{ROW}$

Cable or Board to **Crimp Removable**

.075"

RM2



RM212-020-101-5500

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

.125

149

24-26 AWG

CRIMP RI	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					

.252

.805

20-22 AWG

DIMENSIONS						
SIZE	Α	В	С	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

RM222-020-581-5500

-1.125

.149

28-30 AWG



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

RECEPTACLE

PLUG RECEPTACLE

SERIES

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

BODY

2-Row 2-Row 2 2 BODY STYLE: **BODY STYLE:** Plug, straight, with mounting ears 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)

SIZE010, 020, 030, 040, 050, 060, 070, 080, 090, 100 010, 020, 030, 040, 050, 060, 070, 080, 090, 100

HARDWARE

	CONTACTS					
	TYPE CONTACTS/TERMINATIONS:	1	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:	1	PLATING OPTIONS:			
1	Gold plated termination	0	No plating (use with Contact Option "00" only)			
2	Pre-tinned termination, SnPb alloy (dip solder	1	Gold plated termination			
	options only) ⊠					
3	Pre-tinned termination, SAC305 alloy (dip					
	solder options only)					

STYLE OF HARDWARE: STYLE OF HARDWARE: (See R-41 & R-42 for all options) (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 Two fixed jackscrews 19 Two fixed jacksockets Two fixed jacksockets 20 20 Hex turning jackset, 200" Hex turning jackset, 200" 59 59 Hex turning jackset, reversed, .200" 60 Hex turning jackset, reversed, 200" 60 Two hex turning jackscrews, 200" Two hex turning jackscrews, 200" 61 61 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" Two turning jackscrews, .490" Two turning jackscrews, 490" 66 66 67 Two turning jacksockets, 490" 67 Two turning jacksockets, 490" POLARIZATION: **POLARIZATION** 00 None 00 None

thru 68 are special identifiers, see R-38

(To be keyed by customer)

Same configuration as 01 without Loctite®

- * Full compliment of crimp removable sockets packaged with connectors
- 1. Crimp tool AirBorn part number: CDG4601, Mil Spec number M22520/2-01
- 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.

thru 68 are special identifiers, see R-38

Same configuration as 01 without Loctite®

□ = Option not RoHS compliant

(To be keyed by customer)

01

70

01

70

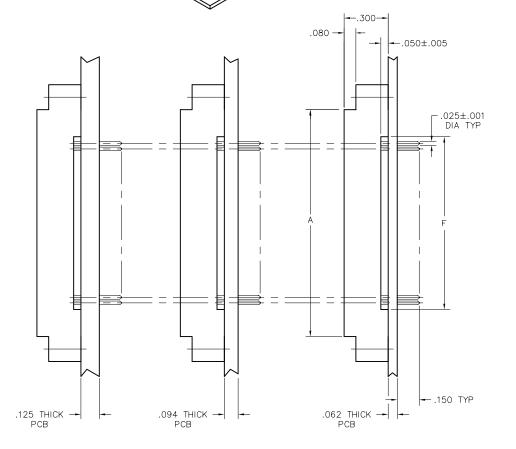


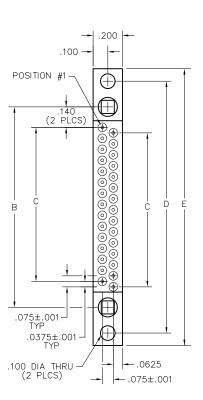
2 • ROW PC Board Stackable or Connector Saver

.075"



10 thru 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	Α	В	С	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	

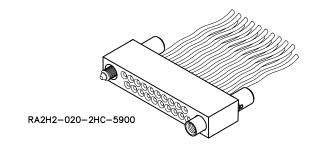


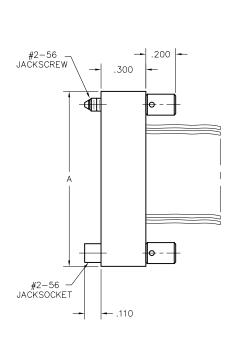
2 · ROW Crimped Wire I/O Receptacle

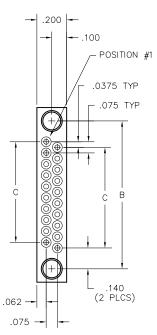
.075"

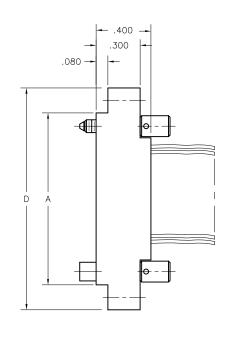
RA2

10 thru 100 Contacts









RECEPTACLE WITHOUT MOUNTING EARS OR POTTING WELL

RECEPTACLE WITH MOUNTING EARS AND POTTING WELL

DIMENSIONS						
SIZE	Α	В	С	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-33.4 FOR CRIMP INSTRUCTIONS, CONTACT INSERTION AND CONTACT REMOVAL TOOLS.



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

SERIES RA .075" Screw Machine PC Connector BODY 2 2-Row

2 2-Row BODY STYLE:

E Receptacle, straight, w/ potting well, w/ mounting ears

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-38)

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

☑ = 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-33.4 for crimp instructions, contact insertion and contact removal tools.

WIRE CODES-

TYP	E and CC	LENG	GTH	
Code Mil-W-1	Size 6878/4	Color	Code	Length (+1"/-0")
ABCDEFGHJK	22 awg 22 awg 24 awg 24 awg 26 awg 26 awg 28 awg 30 awg 30 awg	White Ten repeating White	ABCDEFGHJKL	6" 12" 18" 24" 30" 36" 42" 48" 54" 60" 66"
	2759/33		M N	72" 84"
L M N P R S T U V W	22 awg 22 awg 24 awg 26 awg 26 awg 28 awg 28 awg 30 awg 30 awg	Ten repeating White	P R S	96" 108" 120"

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.



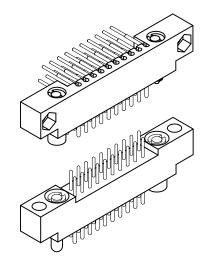
2 · ROW Right Angle PTH Plug Straight PTH Plug

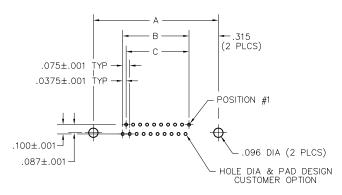
.075"

RM2

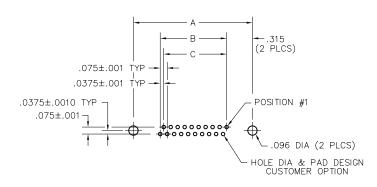
10 thru 100 Contacts Recommended Board Layout

DIMENSIONS						
SIZE	Α	В	С			
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			





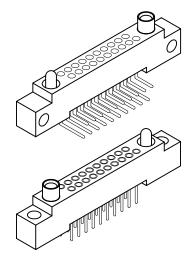
<u>RIGHT ANGLE PTH PLUG</u>
PC BOARD VIEWED FROM COMPONENT SIDE



STRAIGHT PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID
10	5 4 3 2 1	60	30 29 28 3 2 1 60 59 58 33 32 31
20	10 9 8 3 2 1 20 19 18 13 12 11	70	35 34 33 2 1 70 69 68 38 37 36
30	(15)(14)(13) (30)(29)(28) (18)(17)(16)	80	(40) (39) (38) (3) (2) (1) (80) (79) (78) (43) (42) (41)
40	20 (19 (18) 40 (39 (38) 23 (22 (21)	90	(45)(44)(43) (90)(89)(88) (48)(47)(46)
50	25 (24 (23) 3 (2) 1 (50) (49) (48) (28) (27) (26)	100	(50) (49) (48) (3) (2) (1) (100) (99) (98) (53) (52) (51)





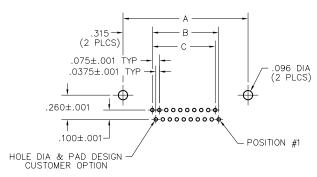
	DIMENSIONS						
SIZE	Α	В	С				
10	.967	.337	.300				
20	1.342	.712	.675				
30	1.717	1.087	1.050				
40	2.092	1.462	1.425				
50	2.467	1.837	1.800				
60	2.842	2.212	2.175				
70	3.217	2.587	2.550				
80	3.592	2.962	2.925				
90	3.967	3.337	3.300				
100	4.342	3.712	3.675				

2 • ROW Right Angle PTH Rcpt Straight PTH Rcpt

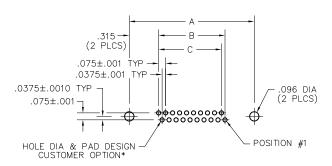
.075"

RM2

10 thru 100 Contacts
Recommended
Board Layout



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
10	10 9 8 7 6 5 4 3 2 1	60	60 59 58 33 32 31 30 29 28 3 2 1
20	20 19 18 13 12 11 10 9 8 3 2 1	70	70 69 68 38 37 36 35 34 33 3 2 1
30	(30) (29) (28) (18) (17) (16) (15) (14) (13) (3) (2) (1)	80	80 79 78 43 42 41 40 39 38 3 2 1
40	(40) (39) (38) (23) (22) (21) (20) (19) (18) (3) (2) (1)	90	90 89 88 48 47 46 45 44 43 3 2 1
50	(50) (49) (48) (28) (27) (26) (25) (24) (23) (3) (2) (1)	100	(00)(99)(98) (50)(49)(48) (3)(2)(1)

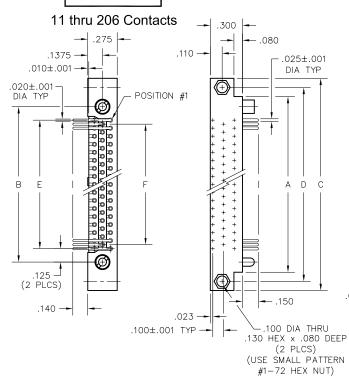


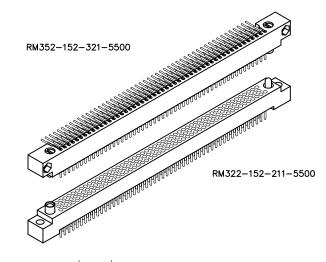
3 · ROW

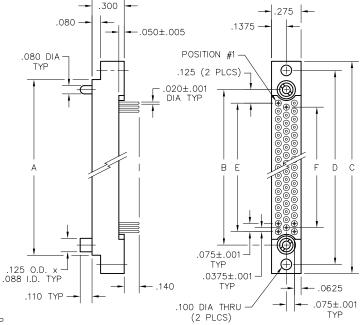
Daughterboard to Motherboard or Chassis

.075"

RM3







PLUG

DIMENSIONS В С F SIZE D Ε Α .835 .225 11 .665 .475 1.005 .150 .965 .775 .525 450 23 1.305 1.135 .750 35 1.265 1.075 1.605 1.435 .825 47 1.375 1.735 1.125 1.050 1.565 1.905 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 2.390 2.200 2.730 2.560 1.950 1.875 2.690 2.500 3.030 2.860 2.250 2.175 2.990 2.800 3.330 3.160 2.550 2.475 104 122 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 4.000 4.530 4.360 3.750 4.190 3.675 4.940 4.750 4.500 182 5.280 5.110 4.425 5.025 206 5.540 5.350 5.880 5.710 5.100

RECEPTACLE



PLUG: RM352-152-321-5500
RECEPTACLE: RM322-152-211-5500

PLUG RECEPTACLE XXXXX-XXX-XXX-XXXXXX **SERIES** RM 075" Screw Machine PC Connector I RM .075" Screw Machine PC Connector **BODY** 3 3-Row 3 3-Row BODY STYLF BODY STYLE: Plug, right angle, with mounting ears 2 Receptacle, straight, with mounting ears Plug, right angle, without mounting ears 4 Receptacle, straight, without mounting ears **BODY MATERIAL: BODY MATERIAL:** Polyphenylene sulfide (PPS) Polyphenylene sulfide (PPS) 2 2 SIZE 011, 023, 035, 047, 059, 071, 080, 092, 104, 011, 023, 035, 047, 059, 071, 080, 092, 104, 122, 140, 152, 182, 206 122, 140, 152, 182, 206 CONTACTS TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .020" dia Socket, straight, dip solder, .109" x .020" dia Pin, right angle, dip solder, 140" x .020" dia Socket, straight, dip solder, 140" x 020" dia 21 Pin, right angle, dip solder, .172" x .020" dia 22 Socket, straight, dip solder, .172" x .020" dia 33 Pin, right angle, dip solder, .109" x .016" dia 23 Socket, straight, dip solder, .250" x .020 dia Pin, right angle, dip solder, 140" x .016" dia 24 35 Socket, straight, solder cup Socket, straight, flex circuit, 093" x .017" dia Socket, straight, wire wrap®, .500" x .018 sq Pin, right angle, dip solder, 172" x 016" dia 36 25 Pin, right angle, dip solder, .250" x .020" dia 26 Socket, straight, wire wrap®, 375" x .018 sq 27 28 Socket, straight, wire wrap ®, .625" x .018 sq Socket, connector saver, 150" x .025" dia 29 50 Socket, straight, dip solder, .140" x .016" dia Socket, straight, dip solder, 172" x 016" dia 51 Socket, straight, stacking, 212" x .025" dia 53 54 Socket, straight, stacking, .244" x .025" dia 55 Socket, straight, stacking, .275" x .025" dia Socket, straight, press-fit, .203" (Board .093"-.125" thk) 64 Socket, straight, press-fit, .323" (Board .156"-.200" thk) Socket, straight, press-fit, .403" (Board .250"+ thk) 65 66 PLATING OPTIONS: PLATING OPTIONS: Gold plated termination Gold plated termination Pre-tinned termination, SnPb alloy ⊠ Pre-tinned termination, SnPb alloy (dip solder options only) ☑ Pre-tinned termination, SAC305 alloy Pre-tinned termination, SAC305 alloy (dip solder options only) **HARDWARE** STYLE OF HARDWARE: STYLE OF HARDWARE: (See R-41 & R-42 for all options) (See R-41 & R-42 for all options) 0256 None 0256 None Guide set Guide set 55 55 Two guide pins 57 57 Two guide pins 58 Two guide sockets 58 Two guide sockets 29 Fixed jackset 29 Fixed jackset Fixed jackset, reversed Fixed jackset, reversed 30 30 19 Two fixed jackscrews 19 Two fixed jackscrews Two fixed jacksockets Two fixed jacksockets 20 20 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" Two hex turning jacksockets, 200" 62 Two hex turning jacksockets, 200" 62 Turning jackset, 490" 64 Turning jackset, 490" 64 65 Turning jackset, reversed, .490" 65 Turning jackset, reversed, 490" Two turning jackscrews, 490" 66 Two turning jackscrews, 490" 66 67 Two turning jacksockets, 490" 67 Two turning jacksockets, 490" POLARIZATION: **POLARIZATION** იი 00 None None 01 thru 68 are special identifiers, see R-38 01 thru 68 are special identifiers, see R-38 Same configuration as 01 without Loctite® Same configuration as 01 without Loctite® 70 (To be keyed by customer) (To be keyed by customer) **OPTIONS** Bond #1-72, sm. pattern hex nuts into mtg. ears

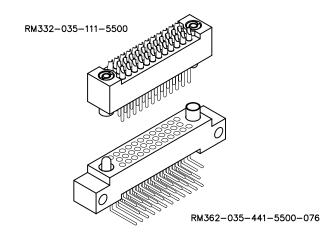


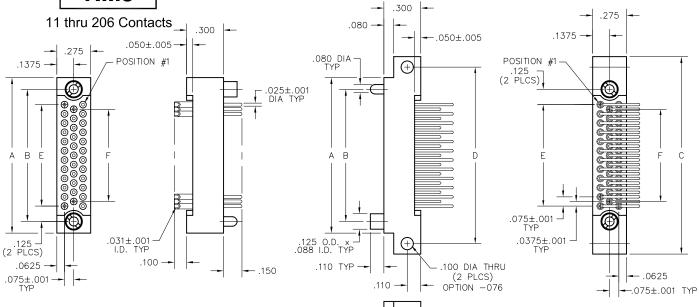
$3 \cdot ROW$

Motherboard or Chassis to Daughterboard

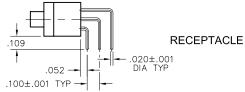
.075"







PLUG



		DI	MENSIO	NS		
SIZE	Α	В	С	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
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



PLUG: RM332-035-111-5500

RECEPTACLE: RM362-035-441-5500-076

 ${\sf xxxxx-xxx-xxx-xxxx-xxx}$ **PLUG RECEPTACLE**

RM .075" Screw Machine PC Connector
3 3-Row
BODY STYLE: 6 Receptacle, right angle, with mounting ears 8 Receptacle, right angle, without mounting ears
BODY MATERIAL: 2 Polyphenylene sulfide (PPS)
SIZE
011, 023, 035, 047, 059, 071, 080, 092, 104, 122, 140, 152, 182, 206
NTACTS
TYPE CONTACTS/TERMINATIONS: 44 Socket, right angle, dip solder, .109" x .020" dia 45 Socket, right angle, dip solder, .140" x .020" dia 46 Socket, right angle, dip solder, .172" x .020" dia 47 Socket, right angle, dip solder, .250" x .020" dia
PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy ⊠ 3 Pre-tinned termination, SAC305 alloy
RDWARE
STYLE OF HARDWARE: (See R-41 & R-42 for all options) 0256 None 55 Guide set 57 Two guide pins 58 Two guide sockets 29 Fixed jackset 30 Fixed jackset, reversed 19 Two fixed jackscrews

55	Guide set	၂ ၁၁	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:	1	POLARIZATION
00	None	00	None
01	thru 68 are special identifiers, see R-38	01	thru 68 are special identifiers, see R-38
70	Same configuration as 01 without Loctite [®]	70	Same configuration as 01 without Loctite [®]
	(T 1 1 1 1 1 1 1 1 1	1	(-

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

☑ = Option not RoHS compliant

(To be keyed by customer)

(To be keyed by customer)

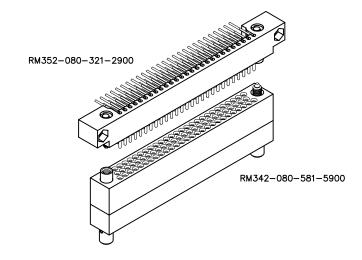


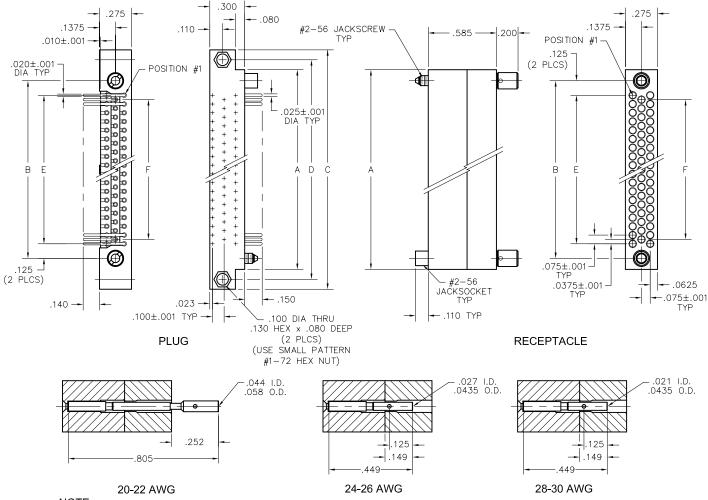
3 · ROW Board to Crimp Removable

.075"

RM3

11 thru 80 Contacts





NOTE:

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

CRIMP RI	EMOVABLE 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

SIZE	A	В	С	D	Ε	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



PLUG RECEPTACLE

		SERIES		
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector	
		BODY		
3	3-Row	3	3-Row	
5 7	BODY STYLE: Plug, right angle, with mounting ears Plug, right angle, without mounting ears	2 4	BODY STYLE: Receptacle, straight, with mounting ears Receptacle, straight, without mounting ears	
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)	
		SIZE		

	SIZE	
011, 023, 035, 047, 059, 071, 080	1	011, 023, 035, 047, 059, 071, 080

	011, 020, 000, 011, 000, 011, 000	'	011, 020, 000, 011, 000, 011, 000				
	CONTACTS						
	TYPE CONTACTS/TERMINATIONS:	1	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	1	Gold plated termination				
3	Pre-tinned termination, SAC305 allov		•				

HARDWARE

	1 1/ 11 11	7 V V / VI V	
	STYLE OF HARDWARE: (See R-41 & R-42 for all options)	1	STYLE OF HARDWARE: (See R-41 & R-42 for all options)
0256	·	025/	· · ·
	S None		6 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:	1	POLARIZATION
00	None	00	None
01	thru 68 are special identifiers, see R-38	01	thru 68 are special identifiers, see R-38
70	Same configuration as 01 without Loctite®	70	Same configuration as 01 without Loctite®
. •	(To be keyed by customer)		(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
- 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.



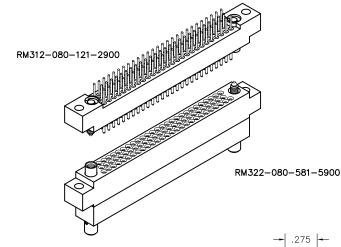
$3 \cdot ROW$

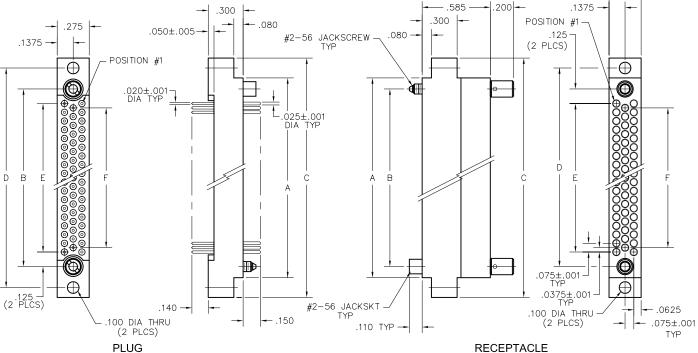
Cable or Board to Crimp Removable

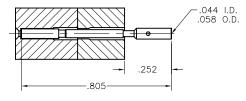
.075"

RM3

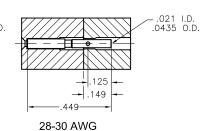
11 thru 80 Contacts







20-22 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	Α	В	С	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			



PLUG: RM312-080-121-2900

RM322-080-581-5900 RECEPTACLE: XXXXX-XXX-XXX-XXXX

PLUG RECEPTACLE

	SE	RIES			
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector		
	ВС	DDY			
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)		
	SI	ZE			
	011, 023, 035, 047, 059, 071, 080	T	011, 023, 035, 047, 059, 071, 080		
	CON	TACTS	S	_	
	TYPE CONTACTS/TERMINATIONS:	1	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	1	Gold plated termination		
	options only)		·		
3	Pre-tinned termination, SAC305 alloy (dip				
	solder options only)				
	HARD	DWAR	E		
	STYLE OF HARDWARE:		STYLE OF HARDWARE:		
	(See R-41 & R-42 for all options)		(See R-41 & R-42 for all options)		
	6 None		6 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 62	Two hex turning jackscrews, .200" knob	61	Two hex turning jackscrews, .200" knob		
n.)	LWO BOY TURNING INCKERCRATE "ZUU" KNOD	エムン	LWO DAY TURNING ISCREACRATE "ZILL" PROD		

67	Two turning jacksockets, .490" knob	67	Two turning jacksockets, .490" knob
	POLARIZATION:	1	POLARIZATION
00	None	00	None
01	thru 68 are special identifiers, see R-38	01	thru 68 are special identifiers, see R-38
70	Same configuration as 01 without Loctite®	70	Same configuration as 01 without Loctite®

62

64

65

66

Two hex turning jacksockets, 200" knob

Turning jackset, reversed, .490" knob

Two turning jackscrews, 490" knob

Turning jackset, 490" knob

(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.

Two hex turning jacksockets, 200" knob

Turning jackset, reversed, .490" knob

Two turning jackscrews, 490" knob

Turning jackset, 490" knob

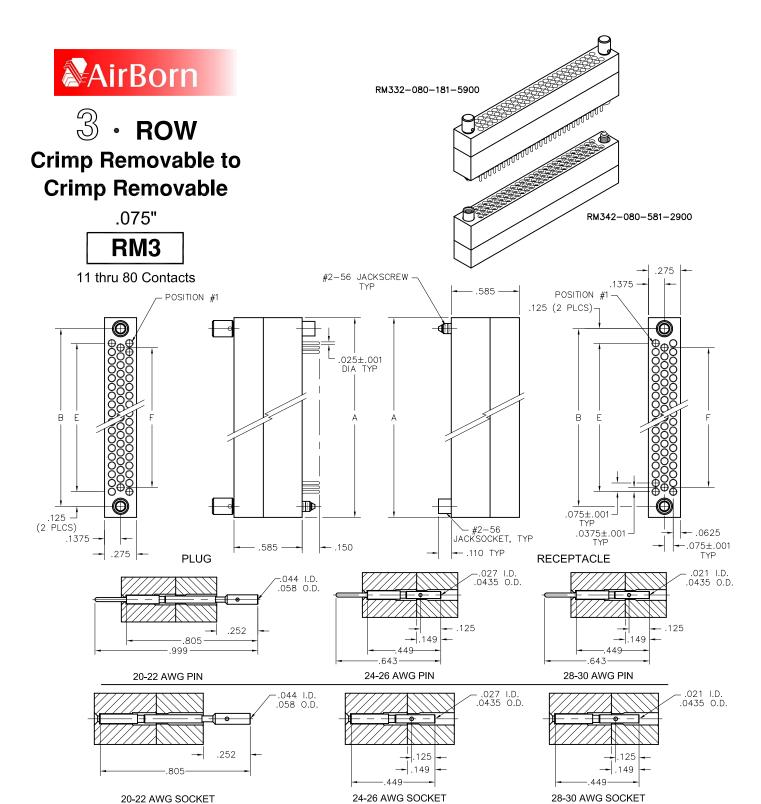
(To be keyed by customer)

62

64

65

66



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	Α	В	Ε	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				



PLUG: RM332-080-181-5900

RECEPTACLE: RM342-080-581-2900 XXXXX-XXX-XXXX

PLUG RECEPTACLE

SERIES							
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector				
	BODY						
3	3-Row	3	3-Row				
1	BODY STYLE: Plug, straight, with mounting ears Plug, straight, without mounting ears	2 4	BODY STYLE: Receptacle, straight, with mounting ears Receptacle, straight, without mounting ears				
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)				
SIZE							
	011, 023, 035, 047, 059, 071, 080		011, 023, 035, 047, 059, 071, 080	-			

CON	TACT	S
TYPE CONTACTS/TERMINATIONS:	1	TYPE CONTACTS/TERMINATIONS:
Contacts not supplied	00	Contacts not supplied
Pin, straight, crimp removable (20-22 AWG)*	57	Socket, straight, crimp removable (20-22 AWG)*
Pin, straight, crimp removable (24-26 AWG)*	58	Socket, straight, crimp removable (24-26 AWG)*
Pin, straight, crimp removable (28-30 AWG)*	59	Socket, straight, crimp removable (28-30 AWG)*
PLATING OPTIONS:	1	PLATING OPTIONS:
No plating (use with Contact Option "00" only)	0	No plating (use with Contact Option "00" only)
Gold plated termination	1	Gold plated termination

н	Δ	R	n	w	ΙA	R	F
п	n	п	v	w	m	п	Е

	STYLE OF HARDWARE:		STYLE OF HARDWARE:	
	(See R-41 & R-42 for all options)		(See R-41 & R-42 for all options)	
025	6 None	0256	6 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:	ı	POLARIZATION	
00	None	00	None	
01	thru 68 are special identifiers, see R-38	01	thru 68 are special identifiers, see R-38	
70	Same configuration as 01 without Loctite [®]	70	Same configuration as 01 without Loctite [®]	
	(To be keyed by customer)		(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)

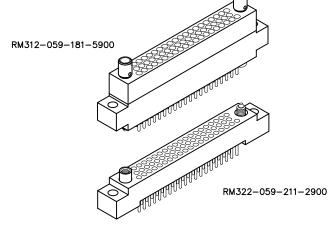
^{4.} Crimp contact part number on previous page.

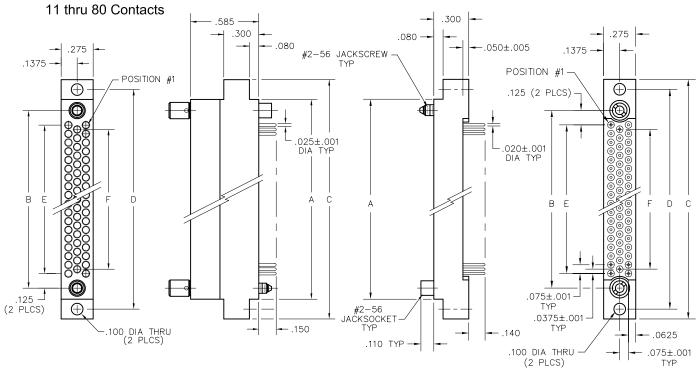


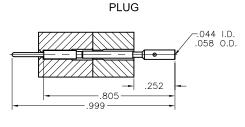
3 · ROW

Crimp Removable to Cable or Board

.075" **RM3**

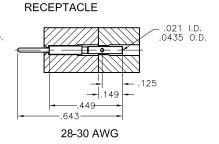






20-22 AWG

.027 I.D. .0435 O.D. .0435 O.D. .0435 O.D. .0435 O.D. .0435 O.D. .0435 O.D.



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	Α	В	С	D	Ε	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		



PLUG: RM312-059-181-5900 RECEPTACLE: RM322-059-211-2900

xxxx-xxx-xxx-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: Plug, straight, with mounting ears Receptacle, straight, with mounting ears Plug, straight, without mounting ears 4 Receptacle, straight, without mounting ears 3 BODY MATERIAL: Polyphenylene sulfide (PPS) BODY MATERIAL: Polyphenylene sulfide (PPS) 2 SIZE 011, 023, 035, 047, 059, 071, 080 011, 023, 035, 047, 059, 071, 080 CONTACTS TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: იი Socket, straight, dip solder, 109" x .020" dia Contacts not supplied Socket, straight, dip solder, .140" x .020" dia Pin, straight, crimp removable (20-22 AWG)* 17 Socket, straight, dip solder, 172" x .020" dia 18 Pin, straight, crimp removable (24-26 AWG)* 22 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 Socket, straight, wire wrap ®, .500" x .018 sq Socket, straight, wire wrap ®, .375" x .018 sq 26 Socket, straight, wire wrap ®, .625" x .018 sq 28 Socket, connector saver, .150" x .025" dia 29 Socket, straight, dip solder, 140" x .016" dia 50 Socket, straight, dip solder, .172" x .016" dia 51 53 Socket, straight, stacking, 212" x .025" dia 54 Socket, straight, stacking, .244" x .025" dia Socket, straight, stacking, .275" x .025" dia 55 Socket, straight, press-fit, .203" (Board .093"-.125" thk) Socket, straight, press-fit, .323" (Board .156"-.200" thk) 65 Socket, straight, press-fit, 403" (Board 250"+ thk) 66 PLATING OPTIONS: PLATING OPTIONS: No plating (use with Contact Option "00" only) Gold plated termination Gold plated termination Pre-tinned termination, SnPb alloy (dip solder options only) Pre-tinned termination, SAC305 alloy (dip solder options only) HARDWARE STYLE OF HARDWARE: STYLE OF HARDWARE: (See R-41 & R-42 for all options) (See R-41 & R-42 for all options) 0256 None 0256 None Guide set 55 Guide set 55 Two guide pins 57 Two guide pins 57 Two guide sockets Two guide sockets 58 58 29 Fixed jackset 29 Fixed jackset 30 Fixed jackset, reversed 30 Fixed jackset, reversed Two fixed jackscrews 19 Two fixed jackscrews 19 20 Two fixed jacksockets 20 Two fixed jacksockets Hex turning jackset, .200" knob Hex turning jackset, .200" knob 59 59 Hex turning jackset, reversed, .200" knob Hex turning jackset, reversed, .200" knob 60 60 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 Turning jackset, 490" knob Turning jackset, .490" knob 64 Turning jackset, reversed, 490" knob 65 Turning jackset, reversed, 490" knob 65 Two turning jackscrews, 490" knob Two turning jackscrews, 490" knob 66 66 Two turning jacksockets, .490" knob 67 67 Two turning jacksockets, 490" knob POLARIZATION: POLARIZATION 00 00 None None thru 68 are special identifiers, see R-38 thru 68 are special identifiers, see R-38 01 01 Same configuration as 01 without Loctite® Same configuration as 01 without Loctite® 70 70 (To be keyed by customer) (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.

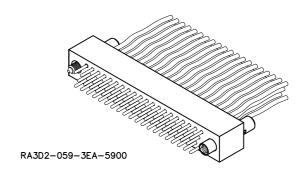


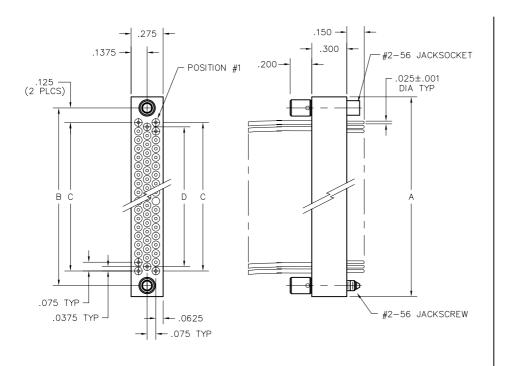
3 · ROW Crimped Wire I/O Plug

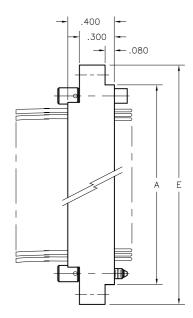
.075"

RA3

11 thru 104 Contacts







PLUG WITHOUT MOUNTING EARS OR POTTING WELL

PLUG WITH MOUNTING EARS AND POTTING WELL

	DIMENSIONS									
SIZE	Α	В	С	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	ATE DESCRIPTION							
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						

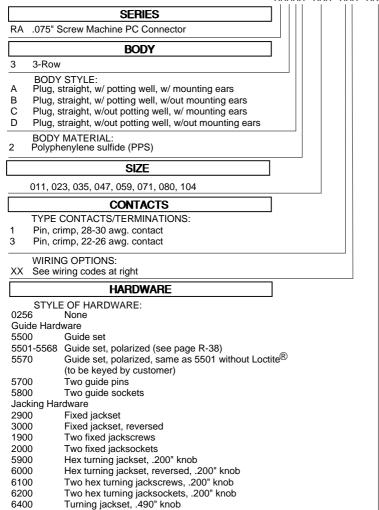
REPLACEMENT CONTACTS:

RA000-001-100-0000 RA000-001-300-0000

SEE PAGE R-33.4 FOR CRIMP INSTRUCTIONS, CONTACT INSERTION AND CONTACT REMOVAL TOOLS.



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



Turning jackset, reversed, .490" knob Two turning jackscrews, .490" knob

Two turning jacksockets, .490" knob

6500

6600

6700

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-33.4 for crimp instructions, contact insertion and contact removal tools.

-	۷	۷	IF	ÌΕ	C	o	D	E	S	-
---	---	---	----	----	---	---	---	---	---	---

TYP	E and CC	LOR	LEN	GTH
Code Mil-W-1	Size 6878/4	Color	Code	Length (+1"/-0")
A B C D E F G H J K	22 awg 22 awg 24 awg 24 awg 26 awg 26 awg 28 awg 28 awg 30 awg	White Ten repeating White Ten repeating White	A B C D E F G H J K L	6" 12" 18" 24" 30" 36" 42" 48" 54" 60" 66"
Mil-W-2 L M	2759/33 22 awg 22 awg	Ten repeating White	M N P	72" 84" 96"
N P R S T U V W	24 awg 24 awg 26 awg 26 awg 28 awg 28 awg 30 awg 30 awg	White Ten repeating White Ten repeating White	RS	108" 120"

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.

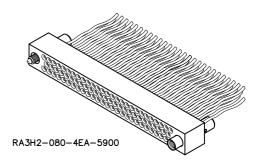


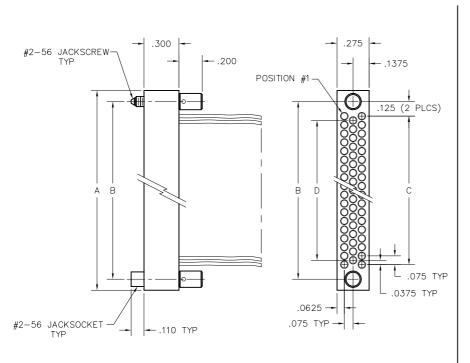
3 · ROW Crimped Wire I/O Receptacle

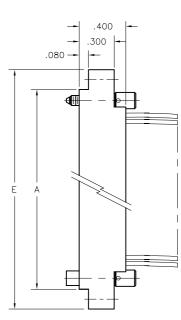
.075"

RA3

11 thru 104 Contacts







RECEPTACLE WITHOUT MOUNTING EARS OR POTTING WELL

RECEPTACLE WITH MOUNTING EARS AND POTTING WELL

		DIME	NSIONS		
SIZE	Α	В	С	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

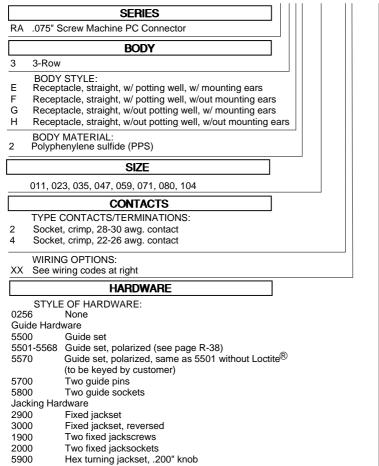
REPLACEMENT CONTACTS:

RA000-001-200-0000 RA000-001-400-0000

SEE PAGE R-33.4 FOR CRIMP INSTRUCTIONS, CONTACT INSERTION AND CONTACT REMOVAL TOOLS.



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



Hex turning jackset, reversed, .200" knob

Two hex turning jackscrews, .200" knob

Two hex turning jacksockets, .200" knob

Turning jackset, reversed, .490" knob

Two turning jackscrews, .490" knob

Two turning jacksockets, .490" knob

Turning jackset, .490" knob

6000

6100

6200

6400

6500

6600

6700

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-33.4 for crimp instructions, contact insertion and contact removal tools.

-	۷	۷	IF	ÌΕ	C	o	D	E	S	-
---	---	---	----	----	---	---	---	---	---	---

TYP	E and CO	LOR	LENGTH		
Code Mil-W-1	Size 6878/4	Color	Code	Length (+1"/-0")	
A B C D E F G H J K	22 awg 22 awg 24 awg 24 awg 26 awg 26 awg 28 awg 30 awg 30 awg	White Ten repeating White Ten repeating White	A B C D E F G H J K L	6" 12" 18" 24" 30" 36" 42" 48" 54" 60" 66"	
Mil-W-2 L M N P R S T U V	2759/33 22 awg 22 awg 24 awg 24 awg 26 awg 26 awg 28 awg 28 awg 30 awg	White Ten repeating White Ten repeating White	M N P R S	72" 84" 96" 108" 120"	

USING WIRE CODES:

RA3H2-080-4EA-5900

Type and Color ———— Length

Color sequence for Ten repeating wire colors:

(Beginning in position #1)

lack

Brown

Red Orange

Yellow

Green Blue

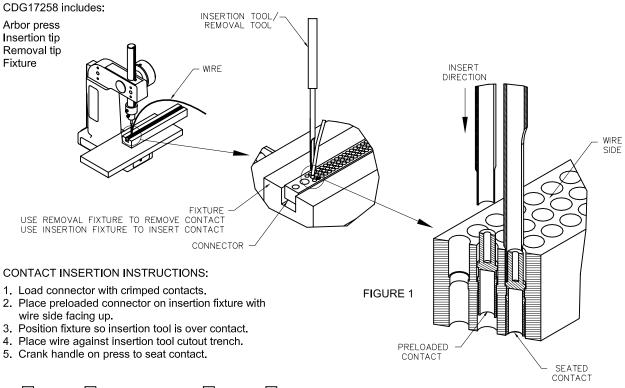
Violet Grey

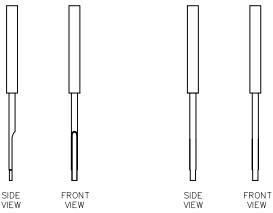
White

Repeat this sequence until connector is fully loaded.



RA Assembly Instructions

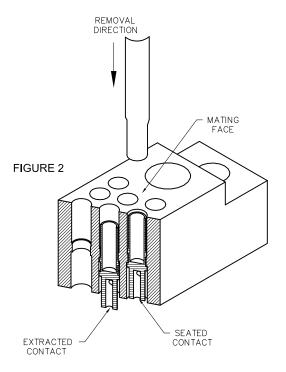




INSERTION TOOL: AIRBORN P/N: CDG17256 REMOVAL TOOL: AIRBORN P/N: CDG17257

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.

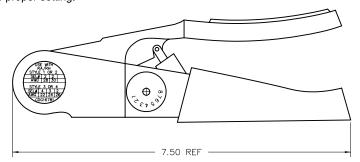


RA Crimp Instructions



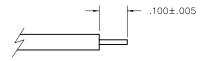
1. SET UP CRIMP TOOL

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.



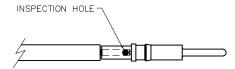
2. STRIP WIRE

Remove insulation from wire as shown.



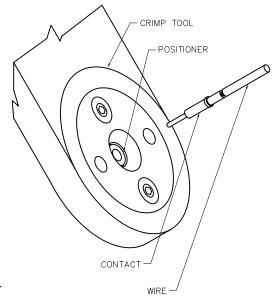
3. INSERT WIRE

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.

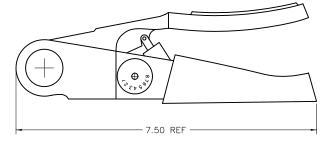




RA Crimp Accessories

Crimp Tool

TC2963 - CRIMP TOOL REF M22520/2-01

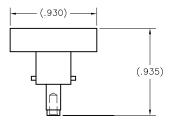


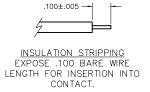
Crimp Positioner



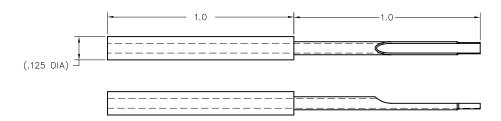
CONTACT	POSITIONER
RA000-001-100-0000	
RA000-001-200-0000	00016781
RA000-001-300-0000	CDG16781
RA000-001-400-0000	

TOOL SELECTION TABLE

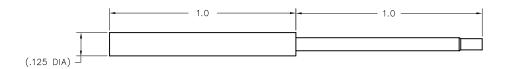




Insertion Tool - CDG17256



Removal Tool - CDG17257



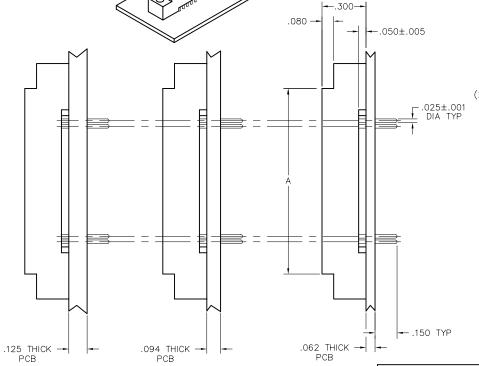


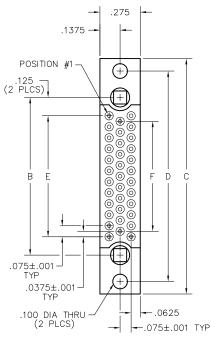
3 • ROW PC Board Stackable or Connector Saver

.075"

RM3

11 thru 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

		DI	MENSIO	NS		
SIZE	Α	В	С	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
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



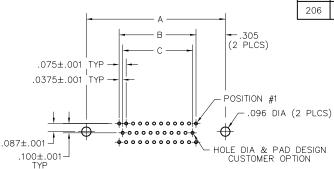
3 · ROW Right Angle PTH Plug Straight PTH Plug

.075"

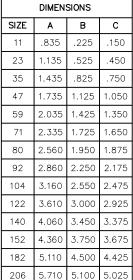
RM3

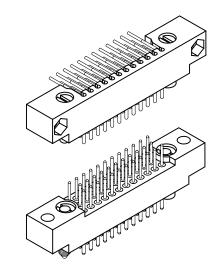
11 thru 206 Contacts

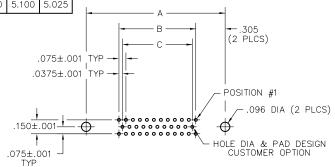
Recommended Board Layout



RIGHT ANGLE PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE



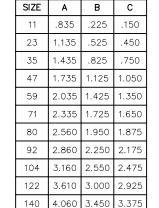




STRAIGHT PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID
11	(4 (3 (2)1 (7 (6)5) (11 (10)9 (8)	92	(31) (30) (29) (3) (2) (1) (61) (60) (59) (34) (33) (32) (92) (91) (92) (94) (64) (63) (62)
23	8 7 6 5 4 3 2 1 (5)14 13 12 11 (10 9) 23 22 21 20 19 18 17 16	104	35 34 33 3 2 1 69 68 67 38 37 36 104 03 02 72 71 70
35	(2) (1) (10) (3) (2) (1) (23) (22) (21) (15) (14) (13) (35) (34) (33) (26) (25) (24)	122	(41) (40) (39) (3) (2) (1) (81) (80) (79) (44) (43) (42) (122) (21) (22) (84) (83) (82)
47	(6) (15) (14) (3) (2) (19) (18) (17) (47) (46) (45) (34) (33) (32)	140	(47) (46) (45) (3) (2) (1) (93) (92) (91) (50) (49) (48) (140) (139) (38) (96) (95) (94)
59	20 19 18 3 2 1 39 38 37 23 22 21 59 58 57 42 41 40	152	(51)(50)(49) (10)(00)(99) (54)(53)(52) (152)(51)(50) (04)(03)(02)
71	(24)(23)(22) (3)(2)(1) (47)(46)(45) (27)(26)(25) (71)(70)(69) (50)(49)(48)	182	(61) (60) (59) (3) (2) (1) (12) (19) (64) (63) (62) (18) (18) (124) (123) (122)
80	27 26 25 3 2 1 53 52 51 30 29 28 80 79 78 56 55 54	206	69 68 67 3 2 1 (137(36(135) 72 71) 70 206(205(204) (40(139(138)





3.750

4.500

3.675

4.425

152

182

206

HOLE DIA & PAD DESIGN CUSTOMER OPTION -.096 DIA (2 PLCS)

.305

POSITION #1

000000000

RIGHT ANGLE PTH RECEPTACLE

PC BOARD VIEWED FROM COMPONENT SIDE

+0000000000

(2 PLCS)

4.360

5.110

5.710

DIMENSIONS

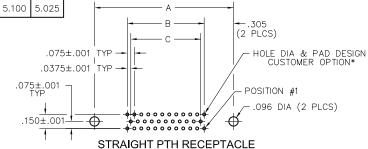


.075"



11 thru 206 Contacts

Recommended Board Layout



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" \pm .002"

SIZE	CONTACT ID	SIZE	CONTACT ID
11	11) 10 9 8 7 6 5 4 3 2 1	92	92 91 90 64 63 62 61 60 59 34 33 32 31 30 29 3 2 1
23	(23(22(21)(20)(19)(18)(17)(16) (15)(14)(13)(12)(11)(10)(9) (8)(7)(6)(5)(4)(3)(2)(1)	104	(04)(03)(02)
35	35 (34) (33) (26) (25) (24) (23) (22) (15) (14) (13) (12) (11) (10) (3) (2) (1)	122	(122(21)(20) (81)(80)(79) (41)(40)(39) (3)(2)(1)
47	(47) (46) (45) (34) (33) (32) (31) (30) (29) (19) (18) (17) (16) (15) (14) (3) (2) (1	140	(40)(39)(38) (93)(92)(91) (47)(46)(45) (3)(2)(1) (40)(39)(38) (50)(49)(48) (3)(2)(1)
59	59 58 57 42 41 40 39 38 37 23 22 21 20 19 18 3 2 1	152	(52(5)(50) (10)(00(99) (51(50(49)) (3 2 1)
71	71 70 69 50 49 48 47 46 45 27 26 25 24 23 22 3 2 1	182	(82(8)(80) (24(23)(22) (12)(20)(119) (64)(63)(62) (61)(60)(59) (3)(2)(1)
80	80(79)(78) (56(55)(54) (53)(52)(51) (30)(29)(28) (27)(28)(25) (3)(2)(1)	206	(208/205/204) (140/139/138) (137/136/135) (72/71/70) (69/68/67) (3/2/11

.075±.001 TYP

.0375±.001 TYP -

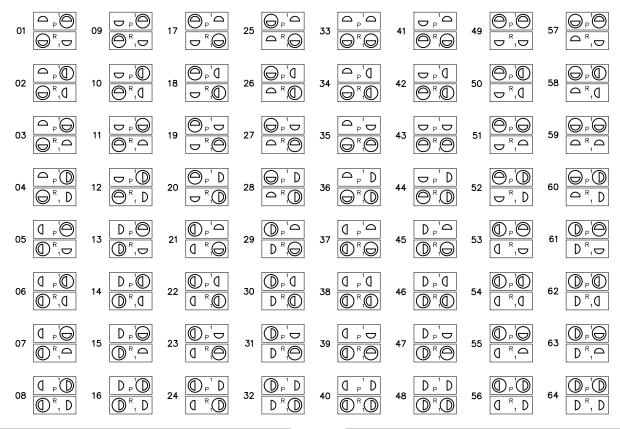
.162±.001

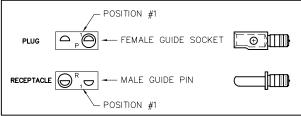
.100±.001-

Polarization 2 & 3 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 RM252-100-311-55<u>01</u> Receptacle RM222-100-211-5501

To order polarization guide set only, see catalog page R-42. 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 quide 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	O _P	For positions 5517 thru 5532
	5567P CD8784	_ p 1	For positions 5533 thru 5548
	5567R CD7743	O ^R , O	For positions 5533 thru 5548
5		O R,O	For positions 5533 thru 5548 For positions 5549 thru 5564
5	DD7743 5568P		5533 thru 5548 For positions

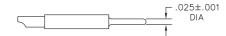
Hardware type shown above catalog order number.



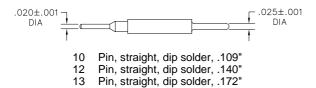
Contacts 2 & 3 Row

Pins and Sockets

PINS



Pin, straight, solder cup



Pin, straight, dip solder, .250" -.025±.001 .017±.001

Pin, straight, flex circuit, .093'



Pin, right angle, dip solder, .109" x .020" dia

32 Pin, right angle, dip solder, .140" x .020" dia

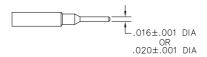
Pin, right angle, dip solder, .172" x .020" dia 33

34 Pin, right angle, dip solder, .109" x .016" dia

35 Pin, right angle, dip solder, .140" x .016" dia

Pin, right angle, dip solder, .172" x .016" dia

SOCKETS



- 20 Socket, straight, dip solder, .109" x .020" dia
- 21 Socket, straight, dip solder, .140" x .020" dia
- Socket, straight, dip solder, .172" x .020" dia 22
- 23 Socket, straight, dip solder, .250" x .020" dia
- Socket, straight, dip solder, .140" x .016" dia 50
- Socket, straight, dip solder, .172" x .016" dia



- Socket, straight, stackable, .212" (Board: .062") 53
- 54 Socket, straight, stackable, .244" (Board: .094")
- Socket, straight, stackable, .275" (Board: .125") 55



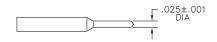
Socket, straight, solder cup 24



25 Socket, straight, flex circuit, .093"



- Socket, straight, crimp removable (20-22 awg)
- 58 Socket, straight, crimp removable (24-26 awg)
- 59 Socket, straight, crimp removable (28-30 awg)



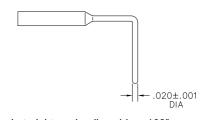
Socket, connector saver, .150"



- Socket, straight, wire-wrap[®], .500" 26
- Socket, straight, wire-wrap®, .375" 27
- Socket, straight, wire-wrap[®], .625" 28



- Socket, straight, press-fit, .203" (Board: .093"-.125") 64
- Socket, straight, press-fit, .323" (Board: .156"-.200") 65
- 66 Socket, straight, press-fit, .403" (Board: .250 or <)



- Socket, right angle, dip solder, .109"
- 45 Socket, right angle, dip solder, .140" 46 Socket, right angle, dip solder, .172" 47 Socket, right angle, dip solder, .250"



Military Cross Reference Chart

M55302/190, 191, 192, 193

Rows	Series & Body T	ype Number of Contacts	Type of Terminal	Hardware
2	M55302/190L	Sockets	A = 241	X = 5500
	RM222	10, 20, 30, 40, 50, 60, 70, 80, 90, 100) B = 201	Y = 5501
			C = 211	F = 2900
3	M55302/192L	Sockets	D = 221	S = 5900
	RM322	122	E = 251	N = 7600
		152	F = 271	L = 5100
			G = 261	M = 6400
			H = 281	
			A = 311	X = 5500
2	M55302/191	Pins	B = 321	Y = 5501
	RM252	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	C = 331	F = 2900
				S = 5900
		Pins	A = 311	N = 7600
3	M55302/193	122	B = 321	L = 5100
	RM352	152	C = 331	M = 6400
	l Description 10L, 192L		e Description 0L, 192L, 191, 193	
A = Solder B = Dip ter	cup minal, .109" long	Type X = Fu Type Y = "D	ull round D-shaped"	
	minal, .140" long	Type F = Fi		
	minal, .172" long		hort turning hex jackset	
	rcuit, .093" long		urning hex jackset	
	rap®, .375" long		urning slotted jackset	
G = Wile W	rap®, .500 long	i ype M = Sr	hort turning slotted jackset	
Refer 19	1, 193			
A = Dip ter	minal, .109" long			

A = Dip terminal, .109" long

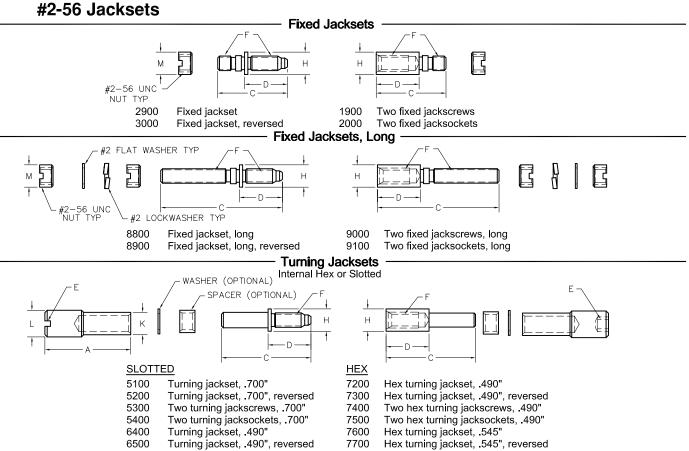
B = Dip terminal, .140" long

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.





Low Profile Jacksets

7800

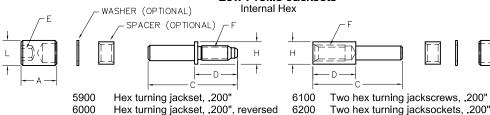
7900

8000

8100

8200

8300



Two turning jackscrews, 490"

Two turning jacksockets, .490"

Turning jackset, .545", reversed

Two turning jackscrews, 545"

Two turning jacksockets, .545"

Turning jackset, 545"

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

COINY	
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

Two hex turning jackscrews, 545" Two hex turning jacksockets, .545"

Hex turning jackset, 700", reversed

Two hex turning jackscrews, 700"

Two hex turning jacksockets, 700"

Hex turning jackset, 700"

Notes:

6600

6700

6800

6900

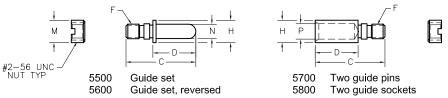
7000

7100

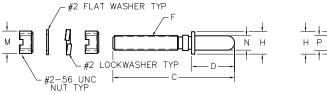
- 1. For spanner nut wrench, order part number TN1680 (refer to page WA-9 in W-Series Catalog).
- 2. When installing fixed jacksets, apply Loctite® to threads.

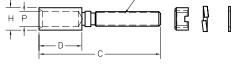


Guide Sets



Long Guide Sets

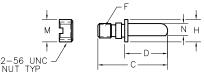


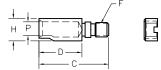


8400 Guide set, long 8500 Guide set, long, reversed

Two guide pins, long 8600 8700 Two guide sockets, long

Polarized Guide Sets

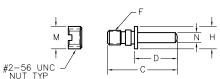


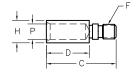




5501 thru 5564, & 5570 Note: For polarization options, see page R-38.

Universal Test Guide Sets







5565 thru 5568 Note: For polarization options, see page R-38.

DIMENSIONS											
HARDWARE TYPE	Α	С	D	E	F	Н	K	L	М	N	Р
1900/2000/2900/3000		.390		_			_	_	.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	#2-56	105		.140 DIA			
6400 THRU 6700	.490		.240	.031 x .031	UNC	.125 DIA					
6800 THRU 7100	.545			SLOT	TH'D					_	_
7200 THRU 7500	.490	.750		5/64			.125 DIA	.156 DIA			
7600 THRU 7900	.545			INTÉRNAL							
8000 THRU 8300	.700			HEX						_	_
8400 THRU 8700		.680		_					.125 DIA	.080 DIA	.088 DIA
8800 THRU 9100		.000		_			_	_	.120 DIA	_	

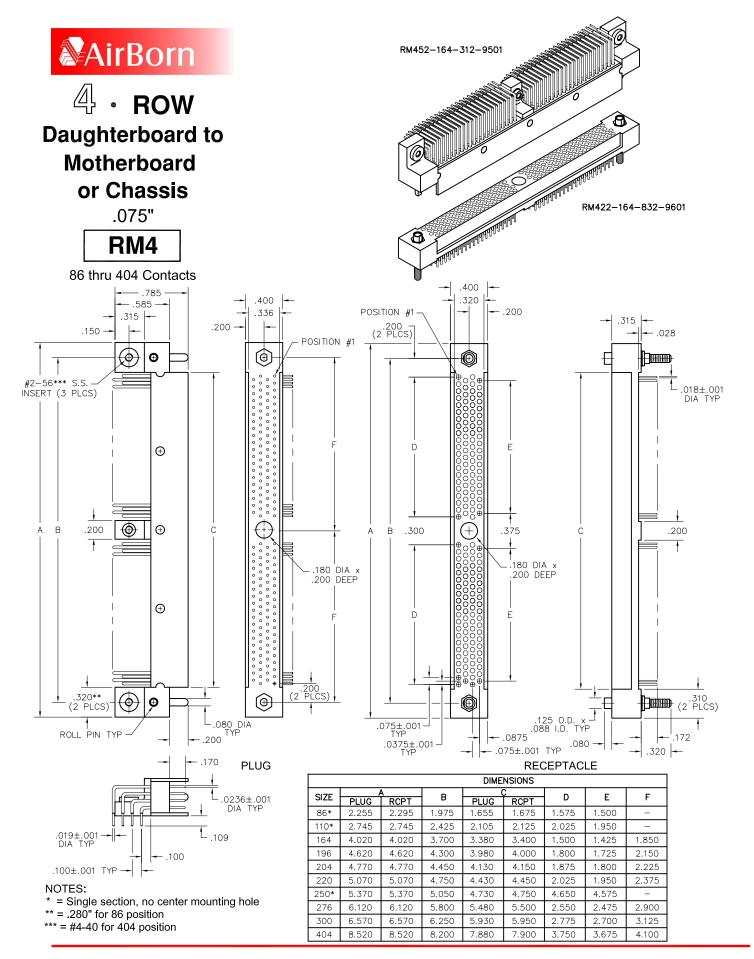
Hardware Only

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





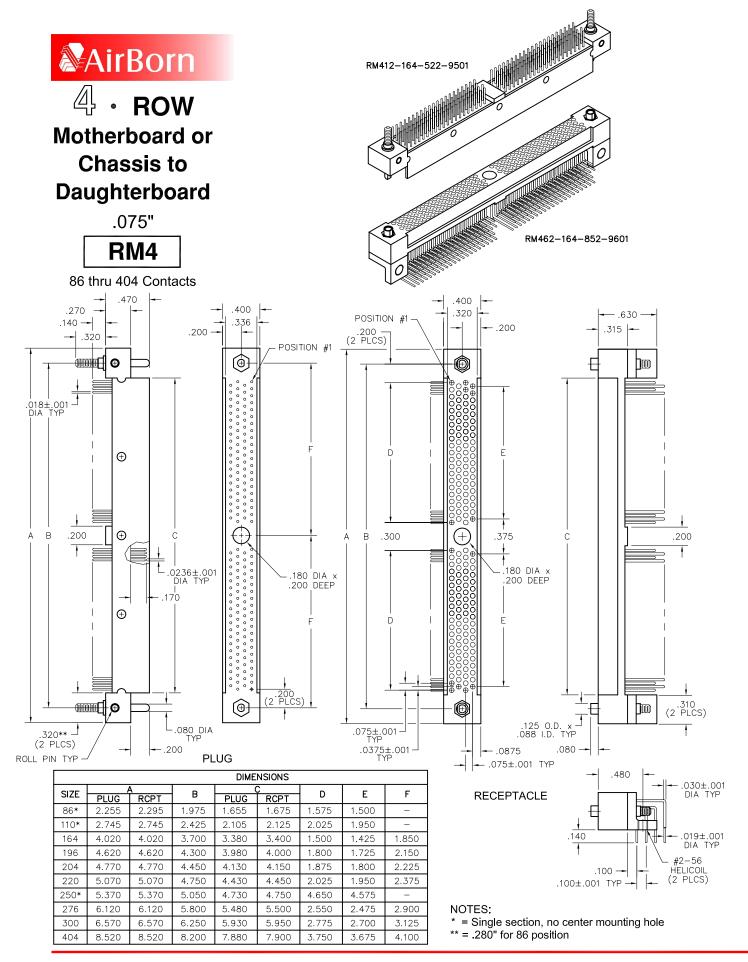
PLUG: RM452-164-312-9501

RECEPTACLE: RM422-164-832-9601 XXXXX-XXX-XXXX

PLUG RECEPTACLE

	SEF	RIES							
RM	.075" Screw Machine PC Connector	RM	1 .075" Screw Machine PC Connector						
	BODY								
4	4-Row	4	4-Row						
5	BODY STYLE: Plug, right angle, 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								
31 32 33 34	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .019" dia Pin, right angle, dip solder, .140" x .019" dia Pin, right angle, dip solder, .172" x .019" dia Pin, right angle, dip solder, .250" x .019" dia	75 76 77 78 79 81 82 83 87 88	TYPE CONTACTS/TERMINATIONS: Socket, straight, dip solder, .250" x .018" dia Socket, straight, solder cup Socket, straight, flex, .093" x .017" dia Socket, straight, wire wrap [®] , .500" x .018" sq Socket, straight, wire wrap [®] , .375" x .018" sq Socket, straight, dip solder, .109" x .018" dia Socket, straight, dip solder, .140" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, press-fit, .188" (Board: .093"125" thk) Socket, straight, press-fit, .308" (Board: .156"200" thk) Socket, straight, press-fit, .388" (Board: .250"+ thk)						
1 2 3	PLATING OPTIONS: Gold plated termination Pre-tinned termination, SnPb alloy ⊠ Pre-tinned termination, SAC305 alloy	1 2 3	PLATING OPTIONS: Gold plated termination Pre-tinned termination, SnPb alloy (dip solder options only) Pre-tinned termination, SAC305 alloy (dip solder options only)						
	HARD	WAF	RE						

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	82 83 84 91 92 93 94 96 960 97 970	STYLE OF HARDWARE: None Hex turning jackset, reversed, installed, .200 knob Fixed jackset, reversed, installed, #2-56 x .247" thd ext Fixed jackset, reversed, installed, #2-56 x .320" thd ext Guide sockets, full round, installed, #2-56 x .247" thd ext Hex turning jackset, installed, .200 knob Fixed jackset, installed, #2-56 x .247" thd ext Fixed jackset, installed, #2-56 x .320" thd ext Guide sockets, polarized, unassembled, #2-56 x .320" thd ext Guide sockets, polarized, installed, #2-56 x .247" thd ext Guide sockets, polarized, unassembled, #2-56 x .247" thd ext Guide sockets, polarized, installed, #2-56 x .247" thd ext Cuide sockets, universel, installed, #2-56 x .247" thd ext	
	98	Guide sockets, universal, installed, #2-56 x .247" thd ext	
POLARIZATION: 00 None	00	POLARIZATION None	_
01 thru 36 are special identifiers, see page R-57	01	thru 36 are special identifiers, see page R-57	





PLUG: RM412-164-522-9501

RECEPTACLE: RM462-164-852-9601 xxxxx-xxx-xxxx

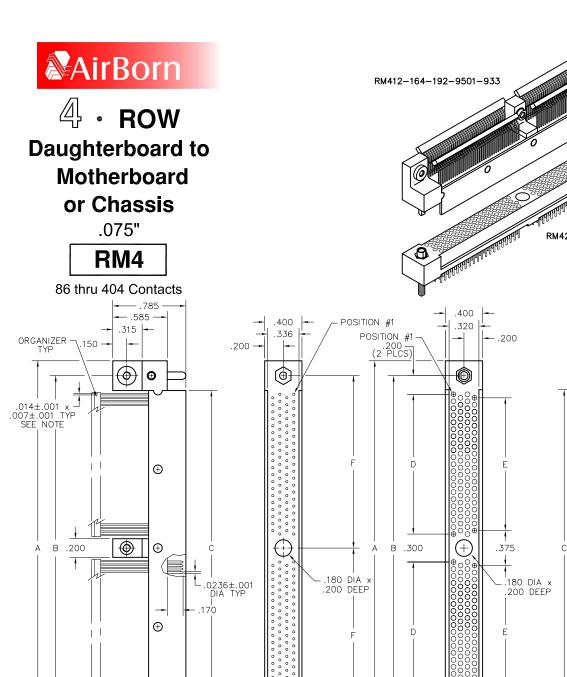
PLUG RECEPTACLE

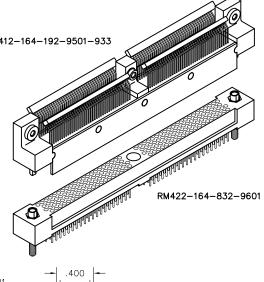
SERIES

	02.			
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector	
	ВО	DY		
4	4-Row	4	4-Row	
	BODY STYLE:	Ī	BODY STYLE:	_
1	Plug, straight, without mounting ears	6	Receptacle, right angle, with mounting brackets	
	BODY MATERIAL:	1	BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)	
	SIZ	 'E		
(086, 110, 164, 196, 204, 220, 250, 276, 300, 404		086, 110, 164, 196, 204, 220, 250, 276, 300, 404	
	CONT	ACTS	3	
	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	2	Pre-tinned termination, SnPb alloy ⊠	
	options only) ⊠	3	Pre-tinned termination, SAC305 alloy	
3	Pre-tinned termination, SAC305 alloy (dip			
	solder options only)	<u> </u>		
	HARD	WAR	E	
	STYLE OF HARDWARE:		STYLE OF HARDWARE:	
0256	3 None	025	6 None	
82	Hex turning jackset, reversed, installed,	82	Hex turning jackset, reversed, installed, .200 knd	dc
	.200 knob	83	Fixed jackset, reversed, installed	
83	Fixed jackset, reversed, installed,	91	Guide sockets, full round, installed	

	#2-56 x .247" thd ext	92	Hex turning jackset, installed, .200 knob
84	Fixed jackset, reversed, installed,	93	Fixed jackset, installed
	#2-56 x .320" thd ext	96	Guide sockets, polarized, unassembled
90	Guide pins, full round, installed,	9601	- 9636 Guide sockets, polarized, installed
	#2-56 x .320" thd ext	97	Guide sockets, polarized, unassembled
92	Hex turning jackset, installed, .200 knob	9701	- 9736 Guide sockets, polarized, installed
93	Fixed jackset, installed, #2-56 x .247" thd ext	98	Guide sockets, universal, installed
94	Fixed jackset, installed, #2-56 x .320" thd ext		
95	Guide pins, polarized, unassembled,		
	#2-56 x .320" thd ext		
9501	- 9536 Guide pins, polarized, installed,		
	#2-56 x .320" thd ext		
99	Guide pins, universal, installed		Note: Includes mounting bracket when right angle
	#2-56 x .320" thd ext		contacts are supplied

	POLARIZATION:	1	POLARIZATION
00	None	00	None
01	thru 36 are special identifiers, see page R-57	01	thru 36 are special identifiers, see page R-57





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

7.880

.200 (2 PLCS)

 Θ

.080 DIA TYP

-.200

404

8.520

8.520

8.200

RECEPTACLE

.315

- .028

.018±.001 DIA TYP

200

(2 PLCS)

.172

NOTES:

.125 O.D. x -

.∪8/5 .080 - .075±.001 TYP

- * = 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

.075±.001 -TYP

.0375±.001

320**

(2 PLCS)

#2-56*** S.S. --INSERT (3 PLCS)

ROLL PIN TYP

PLUG

Φ



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	1			

	C	CONTACTS	
	TYPE CONTACTS/TERMINATIONS:	1	TYPE CONTACTS/TERMINATIONS:
19	Pin, SMT, .014" x .007" tail, scored for	75	Socket, straight, dip solder, .250" x .018" dia
	organizer removal (see R-56)	76	Socket, straight, solder cup
39	Pin, SMT, .014" x .007" tail, unscored	77	Socket, straight, flex, .093" x .017" dia
			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 ⊠	1	Gold plated termination
3	Pre-tinned termination, SAC305 alloy	2	Pre-tinned termination, SnPb alloy (dip solder options only)
	•		Pre-tinned termination, SAC305 alloy (dip solder options only)

HARDWARE

	CTVLE OF HADDWADE.		CTVLE OF HADDIMADE.
	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-57	01	thru 36 are special identifiers, see page R-57

OPTIONS

9XX SMT configuration code, see page R-56

 \boxtimes = Option not RoHS compliant



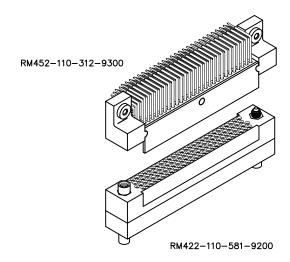
4 · ROW

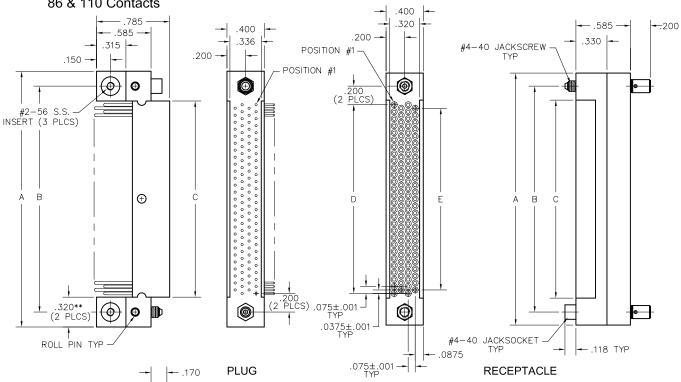
Cable or Board to Crimp Removable

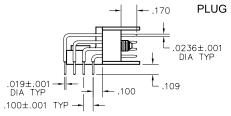
.075"

RM4

86 & 110 Contacts





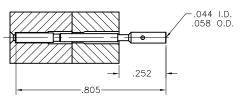


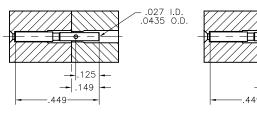
NOTES:

* = Single section, no center mounting hole.

** = .280" for 86 position

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





20-22 AWG

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				

24-26 AWG 28-30 AWG

DIMENSIONS								
SIZE	۸	В			6	-		
SIZE	^	ь	PLUG	RCPT	U			
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		

- .021 I.D. .0435 O.D.

.149



PLUG: RM452-110-312-9300

RECEPTACLE: RM422-110-581-9200 XXXXX-XXX-XXXX-XXXX

PLUG RECEPTACLE

		SERIES			
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector		
		BODY		\neg	
4	4-Row	4	4-Row		
5	BODY STYLE: Plug, right angle, with mounting ears	2	BODY STYLE: Receptacle, straight, without mounting ears		
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)		1
		SIZE			
	086, 110	- 1	086, 110		
		CONTACT	2		

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

- Tro timiou tominiation, or toood andy	1 To timination, Criticist and				
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 91 Guide sockets, full round, installed 92 Hex turning jackset, installed, .200" knob 96 Guide sockets, polarized, unassembled 9601 - 9636 Guide sockets, polarized, installed 98 Guide sockets, universal, installed				
POLARIZATION: 00 None 01 thru 36 are special identifiers, see page R-57	POLARIZATION 00 None 01 thru 36 are special identifiers, see page R-57				

^{*} Full compliment of crimp removable sockets packaged with connectors

CDG4603 (20-22 AWG)

^{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)

^{3.} Crimp removal tool - AirBorn part number: CDG8161 (All AWGs)

^{4.} Crimp contact part number on previous page.



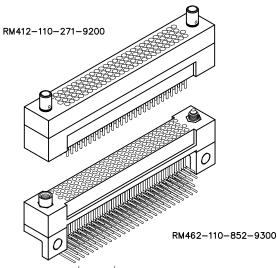
4 · ROW

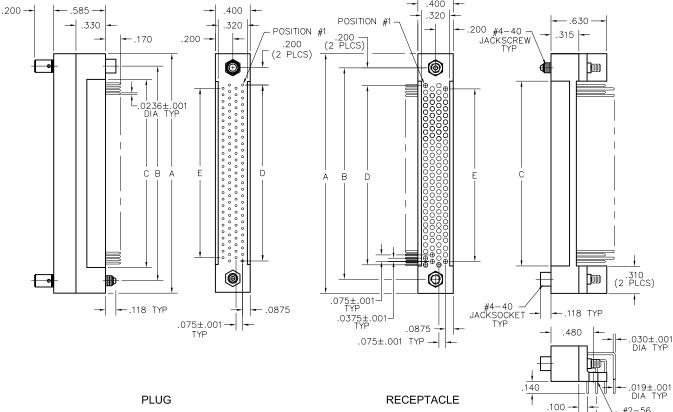
Crimp Removable to Board

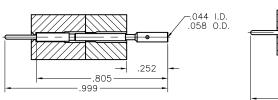
.075"

RM4

86 & 110 Contacts

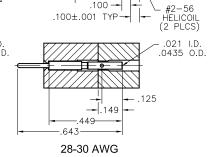






20-22 AWG

.0435 O.D. .0435 O.D. .0435 O.D. .0435 O.D. .0435 O.D. .0435 O.D.



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	RM400-000-261-0000				
24-26 AWG	RM400-000-271-0000				
28-30 AWG	RM400-000-281-0000				

DIMENSIONS								
SIZE	Α	В	(ם	F		
0,			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		



PLUG: RM412-110-271-9200

RECEPTACLE: RM462-110-852-9300 XXXXX-XXX-XXXX-XXXX

PLUG RECEPTACLE

	SEI	RIES		
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector	
	BC	DDY		
4	4-Row	4	4-Row	
	BODY STYLE:	T	BODY STYLE:	
1	Plug, straight, without mounting ears	6	Receptacle, right angle, with mounting ears	
	BODY MATERIAL:	ī	BODY MATERIAL:	
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)	
	SI	ZE		
(086, 110	1	086, 110	
	CONT		s	
	TYPE CONTACTS/TERMINATIONS:	ī	TYPE CONTACTS/TERMINATIONS:	
00	Contacts not supplied	84	Socket, right angle, dip solder, .109" x .019" dia	
26	Pin, straight, crimp removable (20-22 AWG)*	85	Socket, right angle, dip solder, .140" x .019" dia	
27	Pin, straight, crimp removable (24-26 AWG)*	86	Socket, right angle, dip solder, .172" x .019" dia	
28	Pin, straight, crimp removable (28-30 AWG)*			
	PLATING OPTIONS:	1	PLATING OPTIONS:	
0	No plating (use with Contact Option "00" only)	1	Gold plated termination	
1	Gold plated termination	2	Pre-tinned termination, SnPb alloy ⊠	
		13	Pre-tinned termination, SAC305 alloy	
	HARD	WAR	E	
	STYLE OF HARDWARE:	I	STYLE OF HARDWARE:	
	6 None		66 None	
82	Hex turning jackset, reversed, installed,	82	Hex turning jackset, reversed, installed, .200 kr	
	200" km a h	0.2	Fixed incloses revenued installed #0 FC v 047	thd ovt

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 97 Guide sockets, polarized, installed, #2-56 x .247" 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-57	POLARIZATION ON None thru 36 are special identifiers, see page R-57					

^{*} 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.
- $oxed{\boxtimes}$ = Option not RoHS compliant



Right Angle PTH Plug Straight PTH Plug

.075"

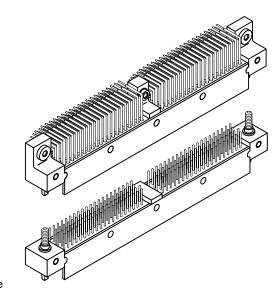
RM4

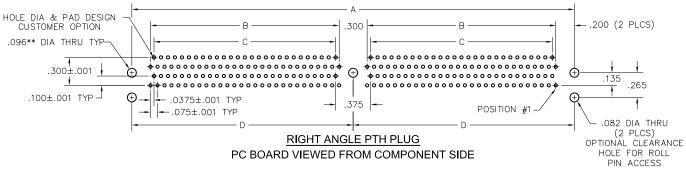
86 thru 404 Contacts Recommended Board Layout

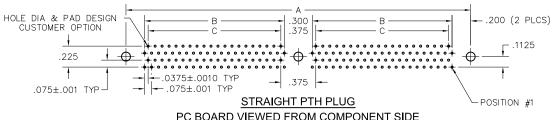
	DIMENSIONS								
SIZE	Α	В	С	D					
86*	1.975	1.575	1.500	-					
110*	2.425	2.025	1.950	_					
164	3.700	1.500	1.425	1.850					
196	4.300	1.800	1.725	2.150					
204	4.450	1.875	1.800	2.225					
220	4.750	2.025	1.950	2.375					
250*	5.050	4.650	4.575	-					
276	5.800	2.550	2.475	2.900					
300	6.250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

NOTES:

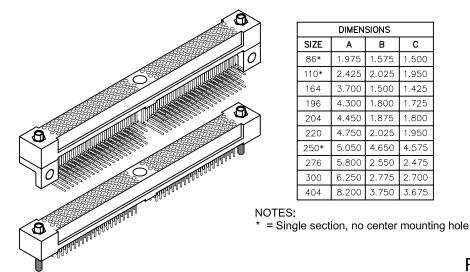
- * = Single section, no center mounting hole
- ** = .125 dia thru holes, size 404







	FC BOARD VIEWED FROM COMPONENT SIDE							
SIZE	CONTACT ID	SIZE	CONTACT ID					
86*	(86) (85) (84) (68) (67) (66) (65) (64) (63) (46) (45) (44) (43) (42) (41) (25) (24) (23) (22) (21) (20) (3) (2) (1)	220	(20)(219)(218) (196)(195)(194) (93)(92)(9) (69)(68)(67) (16)(65)(64) (14)(140)(39) (13)(13)(36) (113)(12)(11) (110)(109)(08) (86)(85)(84) (83)(82)(81) (59)(58)(57) (56)(55)(54) (31)(30)(29) (28)(27)(26) (3)(2)(1)					
110*	(10)(09)(08) (86)(85)(84) (83)(82)(81) (58)(57)(56) (55)(54)(53) (31)(30)(29) (28)(27)(26) (3)(2)(1)	250*	(250/249/248 (9)(9)(8)) (188)(87)(86 (28)(27)(26) (125)(24)(23 (68)(65)(64) (63)(62)(61 (3)(2)(1)					
164	(63(63)(62) (47)(46)(45) (44)(43)(42) (27)(28(25) (23)(23)(22) (06)(05)(04) (03)(02)(01) (85)(84)(83) (82)(81)(80) (65)(64)(63) (62)(61)(60) (45)(44)(43) (42)(41)(40) (24)(23)(22) (21)(20)(19) (3)(2)(1)	276	(76)(73)(74)					
196	(96(95)(94) (75)(74)(73) (72)(7)(70) (15)(50)(49) (48)(47)(46) (226)(25)(24) (23)(22)(21) (0)(00)(99) (98)(97)(96) (77)(76)(75) (74)(73)(72) (53)(52)(51) (50)(49)(48) (28)(27)(26) (25)(24)(23) (3)(2)(1)	300	(50)(49)(48) (16)(15)(14) (13)(12)(11) (79)(78)(77) (76)(75)(74) (41)(40)(39) (38)(37)(36) (3)(2)(15)					
204	(2042)3(2) (82(81)(80) (79)(78)(77) (57)(56)(55) (54)(53)(52) (31)(30)(29) (28)(27)(26) (03)(04)(03) (02)(01)(00) (80,79,78) (77,76,75) (55)(54)(53) (52)(51)(50) (29,28)(27) (26,25)(24) (3,2)(1)	404	(03(40)(59) (503(50)(50) (502(50)(59) (20)(503(50)) (04(40)(40) (503(50)(50) (503(50)(59) (20)(503(50)) (20)(193(197) (107(103)(103) (10)(93)(96) (6) (4) (2) (02(20)(198) (106(104)(102) (10)(19)(97) (5) (3) (1					



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						



AirBorn

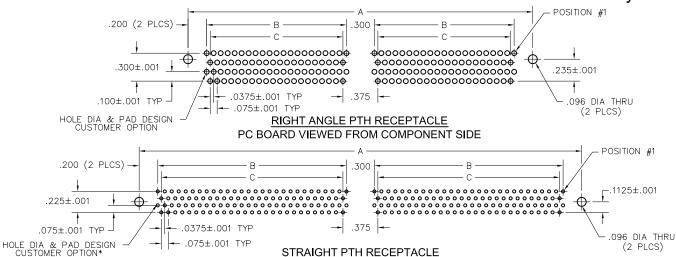
Right Angle PTH Rcpt Straight PTH Rcpt

.075"

RM4

86 thru 404 Contacts

Recommended Board Layout



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 I	D		SIZE		CONTACT I	D	
86*		22 (21) (20) (43) (42) (41) (65) (64) (63) (86) (85) (84)	3 2 1 25 24 23 46 45 44 68 67 66		220	56(55)54 110(109(108) (66)163(164) (220(219(218)	(31) (30) (29) (86) (85) (84) (141) (40) (139) (196) (195) (194)	(28 (27 (26) (83 (82 (81) (38 (37)(36) (93 (192 (191)	3 2 1 59 58 57 (13(12(11) (69(68(167)
110*		28 27 26 55 54 53 83 82 81 110 09 108	3 2 1 31 30 29 58 57 56 86 85 84		250*		63 62 61 (125)(24)(23) (188)(87)(86) (250)(24)(248)	(3) (2) (1) (66) (65) (64) (28) (27) (26) (19) (190) (189)	
164	(42 (41 (40) (82 (81 (80)) (124(123)(22) (64)(63)(62)	(24)(23)(22) (65)(64)(63) (106)(105)(104) (147)(146)(145)	21 (20 (19) 62 (61) (60) (103) (102) (101) (144) (143) (142)	3 2 1 45 44 43 85 84 83 (27)(26)(25)	276	70 (69 (68) (38) (37) (36) 208(207(206) (276)(275)(274)	(38) (37) (36) (107) (106) (05) (176) (75) (74) (245) (244) (243)	(35) (34) (33) (04) (03) (02) (173) (72) (17) (242) (24) (24)	3 2 1 73 72 71 (14)(14)(139) (21)(210)(209)
196	50 (49 (48) 98 (97)(96) (148)(147)(46) (196)(195)(194)	(28) (27) (26) (77) (76) (75) (126) (125) (124) (175) (174) (173)	(25)(24)(23) (74)(73)(72) (123)(22)(121) (72)(17)(170)	3 2 1 53 52 51 (101)(100) 99 (151)(50)(49)	300	76 (75) (74) (50)(49)(48) (226)(22)(22) (50)(29)(28)	(41) (40) (39) (116)(115)(114) (191)(190)(189) (266)(265)(264)	(38) (37) (36) (13)(12) (11) (183)(187)(186) (263)(262)(261)	3 2 1 79 78 77 (53(52)(5) (29(28(27)
204	(52)(51)(50) (102)(101)(100) (54)(153)(52) (204)(203)(202)	29 (28 (27) (80 (79) (78) (13)(13)(129) (182)(181)(180)	(26) (25) (24) (77) (76) (75) (128) (27) (126) (73) (78) (77)	3 2 1 (55)(54)(53) (05)(04)(03) (157)(56)(55)	404	202(20)(198) (20)(199)(197) (404(402)(400) (403(40)(599)	(06(04(02) (07(05)(03) (08(506(04) (509(507(505)	(0)(99(97) (0)(98(96) (0)(301)(29) (0)(0)(298)	5 3 1 6 4 2 207205203 208206204



ROW Straight SMT Plug

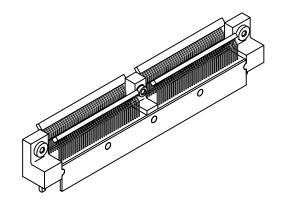
.075"

RM4

86 thru 404 Contacts

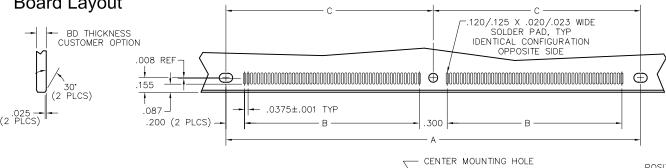
Recommended Board Layout

DIMENSIONS SIZE В С 1.575 86* 1.975 110* 2.425 2.025 164 3.700 1.500 1.850 196 4.300 1.800 2.150 204 4.450 1.875 2.225 4.750 220 2.025 2.375 4.650 5.050 250* 276 5.800 2.550 2.475 300 6.250 2.775 3.125 404 8.200 3.750 4.100



NOTES:

* = Single section, no center mounting hole



FOR #2-56 USE .087/.091 DIA THRU -FOR #4-40 USE .114/.118 DIA THRU (2 PLCS)

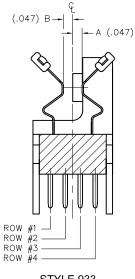
HOLE DIA, MAX
(2 PLCS)

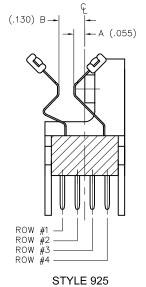
SURFACE MOUNT PLUG

SIZE	CONTACT ID	SIZE	CONTACT ID
86*	C 22	220	C 110 C C 220 C C 166 C C 166 C C 166 C C 165 C C C 165 C C C 165 C C C 165 C C C C C C C C C C C C C C C C C C C
110*	C 280 C 830	250*	C633 C1883 C1253 C2503 C1253 C2503 C1254 C1873 C137 C1873 C13 C1273 C13 C1283 C13 C1283 C13 C1283 C13 C1283 C13 C1283 C13 C1283 C13 C1283
164	C 21 0 C 102 0 C 62 0 C 102 4 0 C 62 0 C 102 4 0 C 102 3 0 C 102 5 0 C 102 5 0 C 102 0	276	C 138 > C 226 > C 138 > C 224 > C 138 > C 175
196	0.000000000000000000000000000000000000	300	C 76 D C 226 D C 150 D C 230 D C 150 D C 230 D C 149 D C 229 D C 145 D C 229 D C 145 D C 229 D C 130 D C 230 D C 130 D C 230 D C 130 D C 230 D C 130 D C 228 D C 130 D C 130 D C 228 D C 130 D
204	C 25 C C C 154 D C C C 102 D C C 154 D C C C 153 D C C C 153 D C C C C 153 D C C C C C C C C C C C C C C C C C C	404	C 201



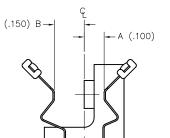
SMT Configuration Options

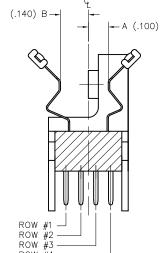




STYLE 933

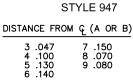
A (.055)





STYLE 946

STYLE 927		
DISTANCE	FROM	မှ (A)
	.005 .055	



ROW #1 ROW #2

ROW

ROW

DISTANCE FROM Ç (B)
0 .090

ROW #4

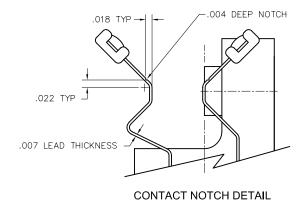
NOTES:

ROW #1 ROW #2 ROW #3

ROW #4

(.150) B-

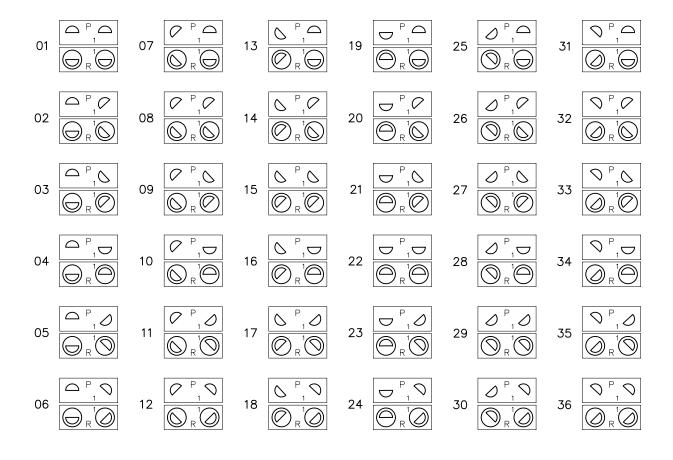
- 1. Various board thicknesses can be accommodated by specifying A and B designators. For example: 9 (A)(B)
- 2. Consult factory for other available options.

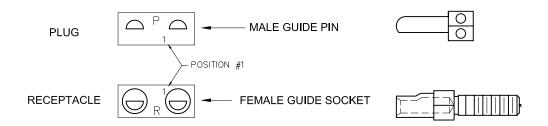




Polarization 4 Row and 6 Row

D-Shaped Guide Hardware





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



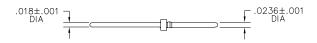
Contacts 4 Row

Pins and Sockets

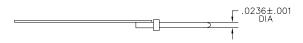
PINS



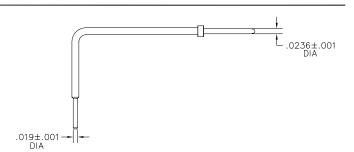
Pin, straight, solder cup



- 51 Pin, straight, dip solder, .109"
- Pin, straight, dip solder, 140" 52
- Pin, straight, dip solder, .172"

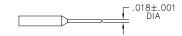


- Pin, SMT, .014" x .007", scored for organizer removal (see R-56)
- Pin, SMT, .014" x .007", unscored



- 31 Pin, right angle, dip solder, .109" x .019" dia
- 32 Pin, right angle, dip solder, 140" x .019" dia
- Pin, right angle, dip solder, .172" x .019" dia

SOCKETS



- 75 Socket, straight, dip solder, .250"
- 81 Socket, straight, dip solder, 109"
- 82 Socket, straight, dip solder, .140"
- Socket, straight, dip solder, 172"



Socket, straight, solder cup



Socket, straight, flex circuit, .093"



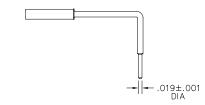
- Socket, straight, wire-wrap $^{\circledR}$, .500" Socket, straight, wire-wrap $^{\circledR}$, .375" 78
- 79



- Socket, straight, press-fit, .188" (Board: .093"-.125")
- Socket, straight, press-fit, 308" (Board: 156"-200") 88
- Socket, straight, press-fit, .388" (Board: .250 or <)



- Socket, straight, crimp removable (20-22 awg)
- 58 Socket, straight, crimp removable (24-26 awg)
- Socket, straight, crimp removable (28-30 awg)



- Socket, right angle, dip solder, .109"
- 85 Socket, right angle, dip solder, .140"
- 86 Socket, right angle, dip solder, .172"



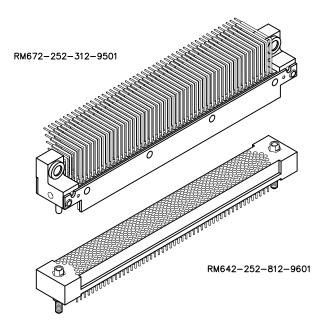
⑥ ⋅ ROW

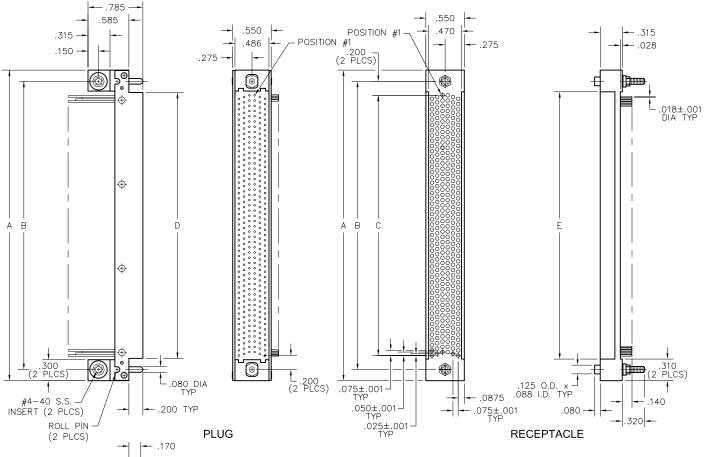
Daughterboard to Motherboard or Chassis

.075"

RM6

162 thru 402 Contacts





	DIMENSIONS								
	SIZE	Α	В	С	D	Ε			
I	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			

.100±.001 TYP -

.0236±.001 DIA TYP



PLUG: RM672-252-312-9501

RM642-252-812-9601 RECEPTACLE:

XXXXX-XXX-XXX-XXXX **PLUG RECEPTACLE SERIES** RM 075" Screw Machine PC Connector | RM .075" Screw Machine PC Connector **BODY** 6-Row 6 6-Row BODY STYLE: BODY STYLE: 7 Plug, right angle, with mounting ears Receptacle, straight, with mounting ears **BODY MATERIAL: BODY MATERIAL:** Polyphenylene sulfide (PPS) Polyphenylene sulfide (PPS) SIZE 162, 204, 252, 300, 360, 402 162, 204, 252, 300, 360, 402 CONTACTS TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .019" dia Socket, straight, dip solder, .250" x .018" dia Pin, right angle, dip solder, .140" x .019" dia 76 Socket, straight, solder cup 32 Pin, right angle, dip solder, .172" x .019" dia 77 Socket, straight, flex, .093" x .017" dia Pin, right angle, dip solder, .250" x .019" dia 81 Socket, straight, dip solder, .109" x .018" dia Socket, straight, dip solder, .140" x .018" dia 82 Socket, straight, dip solder, .172" x .018" dia 83 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: Gold plated termination Gold plated termination Pre-tinned termination, SnPb alloy 区 Pre-tinned termination, SnPb alloy (dip solder options only) □ 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 Guide pins, full round, installed 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, installled, .200 knob Fixed jackset, installed, #2-56 x .247" thd ext 93 Guide pins, universal, installed Fixed jackset, installed, #2-56 x .320" thd ext Guide sockets, polarized, unassembled, #2-56 x .320" thd ext 96 9601 - 9636 Guide sockets, polarized, installed, #2-56 x .320" thd ext 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

thru 36 are special identifiers, see page R-57

None

thru 36 are special identifiers, see page R-57

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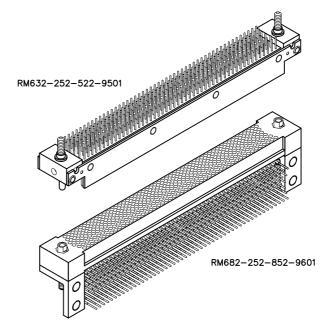


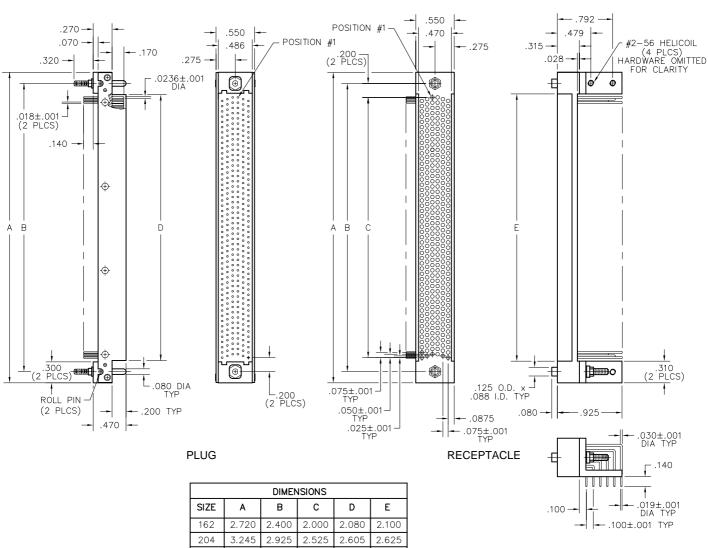
$6 \cdot \text{ROW}$ **Motherboard or Chassis to Daughterboard**

.075"

RM6

162 thru 402 Contacts







PLUG: RM632-252-522-9501

RECEPTACLE: RM682-252-852-9601 xxxxx-xxx-xxx **RECEPTACLE PLUG**

PLU	lG .	REC	SEPTAGLE A		· · ·	1	1	1
	SEF	RIES						
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector					
	BC	DY						
3	6-Row	6	6-Row					
	BODY STYLE:		BODY STYLE:	_				
3	Plug, straight, without mounting ears	8	Receptacle, right angle, with mounting brackets					
	BODY MATERIAL:	1	BODY MATERIAL:					
2	Polyphenylene sulfide (PPS)	2	Polyphenylene sulfide (PPS)					
	SIZ	ZE			_			
	162, 204, 252, 300, 360, 402		162, 204, 252, 300, 360, 402					
	CONT	ACTS						
	TYPE CONTACTS/TERMINATIONS:	1	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	2	Pre-tinned termination, SnPb alloy ⊠					
_	options only)	3	Pre-tinned termination, SAC305 alloy					
3	Pre-tinned termination, SAC305 alloy (dip solder options only)							
	HARD	WARI]
	STYLE OF HARDWARE:	1	STYLE OF HARDWARE:					
0256	8 None	0256	8 None					
82	Hex turning jackset, reversed, installed,	82	Hex turning jackset, reversed, installed, .200 knot	b				
	.200 knob	83	Fixed jackset, reversed, installed					
83	Fixed jackset, reversed, installed	91	Guide sockets, full round, installed					
	#2-56 x .247" thd ext	92	Hex turning jackset, installed, .200 knob					
84	Fixed jackset, reversed, installed	93	Fixed jackset, installed					
	#2-56 x .320" thd ext	96	Guide sockets, polarized, unassembled					
90	Guide pins, full round, installed		1 - 9636 Guide sockets, polarized, installed					
00	#2-56 x .320" thd ext	97	Guide sockets, polarized, unassembled					
92	Hex turning jackset, installed, .200 knob		1 - 9736 Guide sockets, polarized, installed					
93 94	Fixed jackset, installed, #2-56 x .247" thd ext	98	Guide sockets, universal, installed					
94 95	Fixed jackset, installed, #2-56 x .320" thd ext Guide pins, polarized, unassembled, #2-56 x .320" thd ext							
950°	1 - 9536 Guide pins, polarized, installed, #2-56 x .320" thd ext							
99	Guide pins, universal, installed #2-56 x .320" thd ext		Note: Includes mounting bracket when right angle contacts are supplied	е				
	POLARIZATION:	1	POLARIZATION:				—	
იი	POLARIZATION: None	00	POLARIZATION: None					

thru 36 are special identifiers, see page R-57

thru 36 are special identifiers, see page R-57

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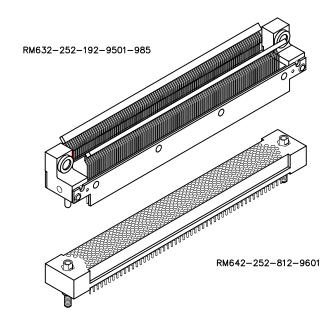
⑥ ⋅ ROW

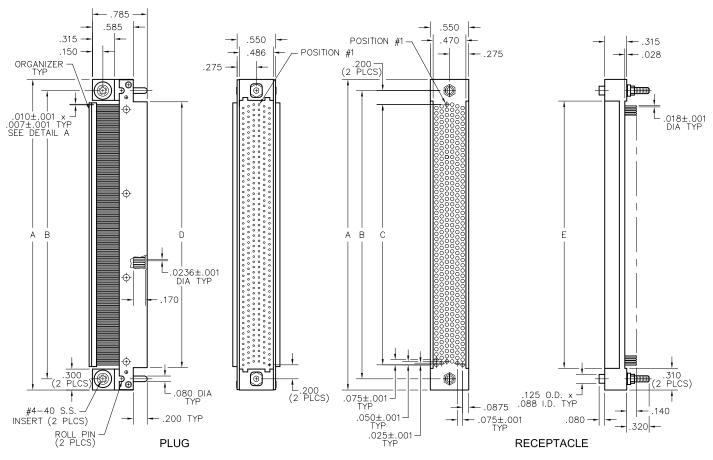
Daughterboard to Motherboard or Chassis

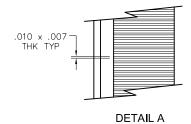
.075"

RM6

162 thru 402 Contacts







DIMENSIONS							
SIZE	Α	В	С	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		



PLUG: RM632-252-192-9501-985

RECEPTACLE: RM642-252-812-9601

			RECEPTACLE:	KM042-252-612-9601
PLU	JG	RE	CEPTACLE	XXXX—XXX—XXX—XXXX-
	SEI	RIES		
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector	
	BC	DDY		7
6	6-Row	6	6-Row	-
	BODY STYLE:	ĺ	BODY STYLE:	
3	Plug, straight, with mounting ears	4	Receptacle, straight, with mounting ears	
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)	
		ZE		1
	162, 204, 252, 300, 360, 402		162, 204, 252, 300, 360, 402	J
	CONT	FACT!		
	TYPE CONTACTS/TERMINATIONS:	-	TYPE CONTACTS/TERMINATIONS:	_
19	Pin, SMT, .014" x .007" tail, scored for	75	Socket, straight, dip solder, .250" x .018" dia	
	organizer removal (see R-56)	76	Socket, straight, solder cup	
39	Pin, SMT, .014" x .007" tail, unscored	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 Socket, straight, dip solder, .172" x .018" dia	
		83 87	Socket, straight, press-fit, 188" (Board: .093" -	- 125" thk)
		88	Socket, straight, press-fit, .308" (Board: .156" -	
		89	Socket, straight, press-fit, .388" (Board: .250"+	
	PLATING OPTIONS:	1	PLATING OPTIONS:	
2	Pre-tinned termination, SnPb alloy ⊠	1	Gold plated termination	
3	Pre-tinned termination, SAC305 alloy	2	Pre-tinned termination, SnPb alloy (dip solder	options only) 🗵
		3	Pre-tinned termination, SAC305 alloy (dip sold	er options only)
	HARD	WAR	E]
	STYLE OF HARDWARE:	1	STYLE OF HARDWARE:	
	None		6 None	lan ala
83 90	Fixed jackset, reversed, installed Guide pins, full round, installed	82 83	Hex turning jackset, reversed, installed, .200 Fixed jackset, reversed, installed, #2-56 x .24	
93	Fixed jackset, installed	84	Fixed jackset, reversed, installed, #2-56 x .32	
95	Guide pins, polarized, unassembled	91	Guide sockets, full round, installed, #2-56 x .2	
	1 - 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, #2-5	
			1 - 9636 Guide sockets, polarized, installed, #2	
		97	Guide sockets, polarized, unassembled, #2-5 1 - 9736 Guide sockets, polarized, installed, #2	
		98	Guide sockets, universal, installed, #2-56 x .2	
0.0	POLARIZATION:		POLARIZATION:	
00	None	00	None	
01	thru 36 are special identifiers, see page R-57	01	thru 36 are special identifiers, see page R-57	
	ОРТ	IONS		
9XX	SMT configuration code, see page R-56			

 \boxtimes = Option not RoHS compliant



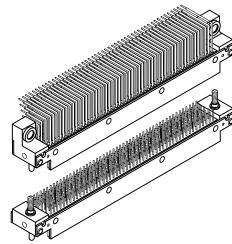
⑤ ⋅ ROW Right Angle PTH Plug

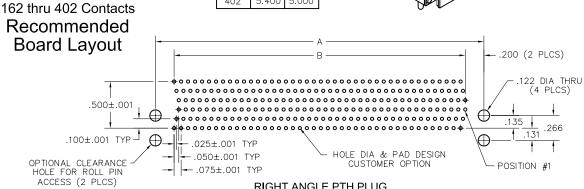
Straight PTH Plug

.075"

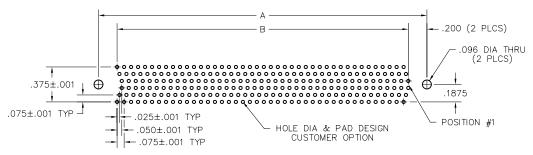
RM6

DIMENSIONS SIZE В 2.400 2.000 204 2.525 2.925 252 3.525 3.125 300 4.125 3.725 4.875 360 4,475 5.400





RIGHT ANGLE PTH PLUG PC BOARD VIEWED FROM COMPONENT SIDE



STRAIGHT PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT II)	SIZE	CONTACT	T ID
162	(62(53(56) (16)(53)(55) (60)(57)(54) (79)(76)(73) (80)(77)(74) (81)(78)(75)	90 87 84 89 86 83 88 85 82 7 4 1 8 5 2 9 6 3	300	\$00£97£94 £99£96£93 £98£93£92 (48)(45)(42) (49)(46)(43) (50)(47)(44)	(59(56(5)) (58(55)(52) (57(54(5)) (7 4 1) (8 5 2) 9 6 3
204	(20)(20)(98) (20)(20)(97) (20)(99)(98) (10)(97)(94) (10)(98)(95) (10)(99)(96)	(11)(03(05) (10)(07)(04) (03(06)(03) (7 4 1) (8 5 2) 9 6 3	360	(56)(57)(54) (53)(56)(53) (53)(53)(52) (73)(73)(73) (73)(73)(73) (80)(77)(74)	(89)(85)(82) (87)(84)(81) (7 4 1) (8 5 2) (9 6 3)
252	(55)(49)(48) (25)(49)(45) (53)(47)(44) ((24)(2)(18) ((23)(22)(19) (28)(23)(20)	(35)(32)(29) (34)(31)(28) (33)(30)(27) (7 4 1) (8 5 2) (9 6 3)	402	(0)(29(29) (0)(29(29) (0)(2)(29) (29(29(29) (20)(29(29)	210£07£04 £09£08£03 £09£03£02 (7 4 1) (8 5 2) (9 6 3

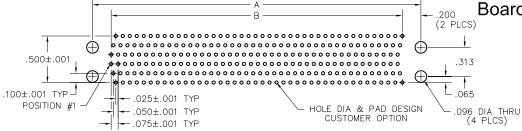


Right Angle PTH Rcpt Straight PTH Rcpt

.075"

RM6

162 thru 402 Contacts Recommended Board Layout



DIMENSIONS

2.925

3.525

4.125

4.875

5.400

2.400 2.000

2.525

3.125

3.725

4.475

5.000

SIZE

162

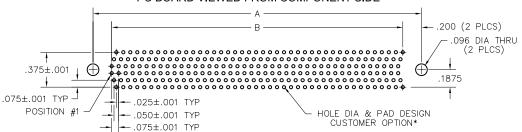
204

252

300

402

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) (158 159 162) (82 85 88) (154 157 166) (1 4 7) (2 5 8) (74 77 80) (3 6 9) (75 78 81)	300	(53(56)(59) (294(29)(30)) (152(155)(58) (293(296)(29) (15)(154)(57) (292(293(298)) (1 4 7) (142(145)(48) (2 5 8) (143(148)(49) (3 6 9) (144(147)(50)
204	(05(08(11)	360	(83(88)(88) (553(55)(56) (82(88)(88) (553(55)(55) (18)(84)(87) (552(55)(55) (1 4 7) (72(73)(78) (2 5 8) (73(76)(79) (3 6 9) (74(77)(80)
252	(29(32(35) (28(3)(34) (27(30)(33) (27)(30)(33) (14)(27)(20) (18)(21)(24) (2)(28) (3)(6)(9) (20(23)(28)	402	204207210 (59539402) 203208209 (59539401) 203203209 (59459)401 (1 4 7) (193(198(19) (2 5 8) (194(197200) (3 6 9) (193(19820)



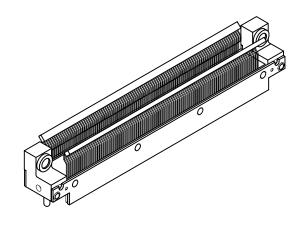
Straight SMT Plug

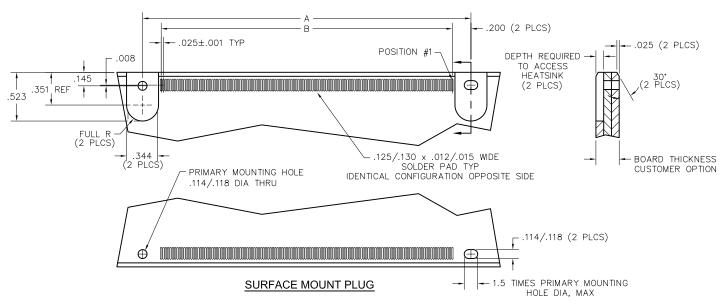
.075"

RM6

162 thru 402 Contacts Recommended Board Layout

DIMENSIONS						
SIZE	Α	В				
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	C 81 C 162 C 80 C 161 C 79 C 161 C 78 C 159 C 77 C 158 C	300	C1500 C3000 C1490 C2990 C1470 C2970 C1460 C2960 C1460 C2960 C1460 C2960 C2960 C2960 C2960 C2960 C2960 C2960 C2060 C2960 C2060 C1560 C2060
204	C1025 C2045 C1015 C2035 C1005 C2025 C995 C2015 C98 C2005 C98 C2005 C205 C1075 C45 C1075 C45 C1065 C25 C1045 C25 C1045	360	C1805 C3605 C1795 C3595 C1775 C3575 C1765 C3565 C1765 C3565 C1765 C3565 C1765 C3565 C1765 C3565 C1765 C3565 C1765 C3565 C1765 C3565 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855 C1855
252	C1265 C2525 C1255 C2515 C1250 C2515 C1230 C2485 C1220 C2485 C1220 C2485 C1220 C2485 C1220 C2485 C1250 C1315 C1250 C1315 C1250 C1315 C1250 C1285 C1250 C1275	402	C2015 C4025 C1990 C4015 C1990 C4015 C1980 C3995 C1975 C3985 C1975 C3985 C1975 C3985 C1975 C3985 C1975 C3985 C1975 C3985 C1975 C2065 C1975 C2065



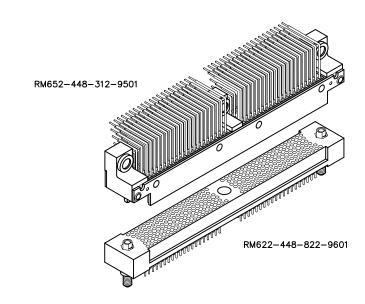
⑥ ⋅ ROW

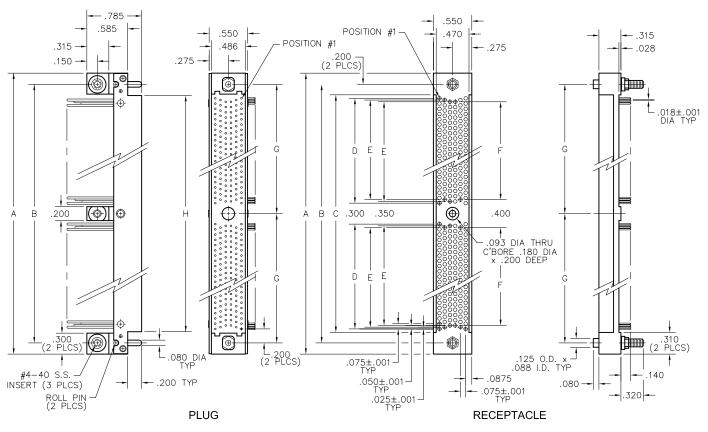
Daughterboard to Motherboard or Chassis

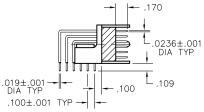
.075"

RM6

448 & 604 Contacts







	DIMENSIONS									
SIZE	Α	В	С	D	E	F	G	Н		
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		



PLUG: RM652-448-312-9501

RECEPTACLE: RM622-448-822-9601

XXXXX-XXX-XXXX DLUC DECEDEACLE

PLUG	RECEPTACLE	XXXXX-XXX-XXX-XX
SI	ERIES	7
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector	
E	ODY	7
6 6-Row	6 6-Row	
BODY STYLE: 5 Plug, right angle, with mounting ears	BODY STYLE: 2 Receptacle, straight, with mounting ears	
5 Plug, right angle, with mounting ears BODY MATERIAL:	BODY MATERIAL:	
Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)	
5	SIZE	
448, 604	448, 604	
CON	ITACTS	7
TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .019" dia Pin, right angle, dip solder, .140" x .019" dia Pin, right angle, dip solder, .172" x .019" dia 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 84 Socket, straight, press-flt, .188" (Board: .093" 85 Socket, straight, press-flt, .308" (Board: .156" 89 Socket, straight, press-flt, .388" (Board: .250"+	200" thk)
PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy ⊠ 3 Pre-tinned termination, SAC305 alloy	PLATING OPTIONS: 1 Gold plated termination 2 Pre-tinned termination, SnPb alloy (dip solder 3 Pre-tinned termination, SAC305 alloy (dip solder	
HAR	DWARE	
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 83 Fixed jackset, reversed, installed, #4-40 x .24 84 Fixed jackset, reversed, installed, #4-40 x .32 91 Guide sockets, full round, installed, #4-40 x .32 92 Hex turning jackset, installed, .200 knob 93 Fixed jackset, installed, #4-40 x .320" thd ext 94 Fixed jackset, installed, #4-40 x .320" thd ext 96 Guide sockets, polarized, unassembled, #4-40 9601 - 9636 Guide sockets, polarized, installed, # 97 Guide sockets, polarized, unassembled, #4-4 9701 - 9736 Guide sockets, polarized, installed, # 98 Guide sockets, universal, installed, #4-40 x .2	7" thd ext 0" thd ext 247" thd ext 0 x .320" thd ext 4-40 x .320" thd ext 0 x .247" thd ext
POLARIZATION: 00 None	POLARIZATION: None	
01 thru 36 are special identifiers, see page R-57	01 thru 36 are special identifiers, see page R-57	

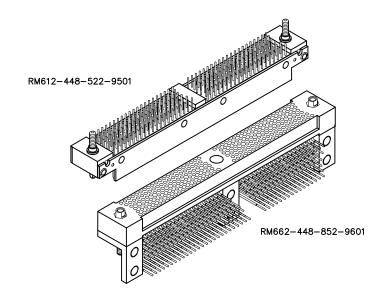


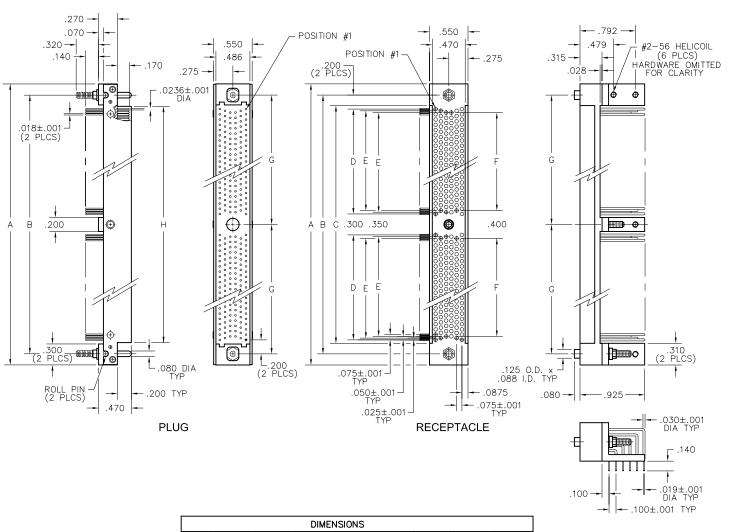
6 · ROW Motherboard or Chassis to Daughterboard

.075"

RM6

448 & 604 Contacts





	DIMENSIONS									
SIZE	Α	В	С	D	E	F	G	Ι		
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		



PLUG: RM612-448-522-9501

XXXXX-XXX-XXXX

RECEPTACLE: RM662-448-852-9601

PLUG RECEPTACLE

SERIES

				1 1 1 1 1 1 '
RM	.075" Screw Machine PC Connector	RM	.075" Screw Machine PC Connector]
	BC	DDY		
6	6-Row	6	6-Row	
1	BODY STYLE: Plug, straight, without mounting ears	6	BODY STYLE: Receptacle, right angle, with mounting brackets	
2	BODY MATERIAL: Polyphenylene sulfide (PPS)	2	BODY MATERIAL: Polyphenylene sulfide (PPS)	
	SI	ZE		
	448, 604		448, 604	
	CONT	FACT!	S	
17 40 51 52 53 54	TYPE CONTACTS/TERMINATIONS: Pin, straight, solder cup Pin, straight, flex .093" x .017" dia Pin, straight, dip solder, .109" x .018" dia Pin, straight, dip solder, .140" x .018" dia Pin, straight, dip solder, .172" x .018" dia Pin, straight, dip solder, .250" x .018" dia	84 85 86	TYPE CONTACTS/TERMINATIONS: Socket, right angle, dip solder, .109" x .019" dia Socket, right angle, dip solder, .140" x .019" dia Socket, right angle, dip solder, .172" x .019" dia	
1 2 3	PLATING OPTIONS: Gold plated termination Pre-tinned termination, SnPb alloy (dip solder options only) ⊠ Pre-tinned termination, SAC305 alloy (dip solder options only)	1 2 3	PLATING OPTIONS: Gold plated termination Pre-tinned termination, SnPb alloy ⊠ Pre-tinned termination, SAC305 alloy	
	HARD	WAR	iE	
0250 82	STYLE OF HARDWARE: 66 None Hex turning jackset, reversed, installed,	025 82	STYLE OF HARDWARE: 66 None Hex turning jackset, reversed, installed, .200 kno	ob

	HARD	WARE	
	STYLE OF HARDWARE:		STYLE OF HARDWARE:
0256	None	0256	S None
82	Hex turning jackset, reversed, installed,	82	Hex turning jackset, reversed, installed, .200 knob
	.200 knob	83	Fixed jackset, reversed, installed
83	Fixed jackset, reversed, installed	91	Guide sockets, full round, installed
	#4-40 x .247" thd ext	92	Hex turning jackset, installed, .200 knob
84	Fixed jackset, reversed, installed	93	Fixed jackset, installed
	#4-40 x .320" thd ext	96	Guide sockets, polarized, unassembled
90	Guide pins, full round, installed	9601	l - 9636 Guide sockets, polarized, installed
	#4-40 x .320" thd ext	97	Guide sockets, polarized, unassembled
92	Hex turning jackset, installed, .200 knob		l - 9736 Guide sockets, polarized, installed
93	Fixed jackset, installed, #4-40 x .247" thd ext	98	Guide sockets, universal, installed
94	Fixed jackset, installed, #4-40 x .320" thd ext		
95	Guide pins, polarized, unassembled,		
	#4-40 x .320" thd ext		
9501	- 9536 Guide pins, polarized, installed,		
	#4-40 x .320" thd ext		
99	Guide pins, universal, installed		Note: Includes mounting bracket when right angle
	#4-40 x .320" thd ext		contacts are supplied
	POLARIZATION:	1	POLARIZATION:
00	None	00	None
01	thru 36 are special identifiers, see page R-57	01	thru 36 are special identifiers, see page R-57

 \boxtimes = Option not RoHS compliant



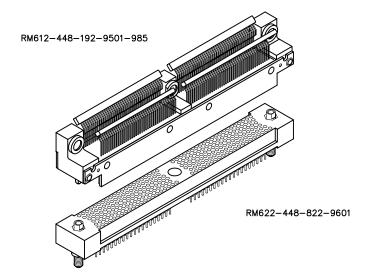
⑥ ⋅ ROW

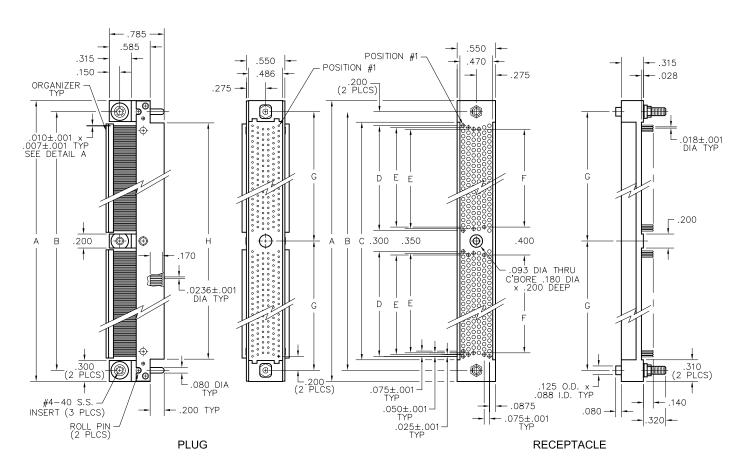
Daughterboard to Motherboard or Chassis

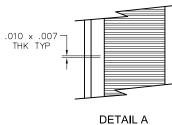
.075"

RM6

448 & 604 Contacts







DIMENSIONS								
SIZE	Α	В	C	D	E	F	G	Н
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



PLUG: RM612-448-192-9501-985

		RECEPTACLE:	RM622-448-822-9601
PLUG	REG	CEPTACLE	XXXXX-XXX-XXX-XXXX-XX
	SERIES		7
RM .075" Screw Machine PC Conne	ctor RM	.075" Screw Machine PC Connector	-
	BODY		<u> </u>
6 6-Row	6	6-Row	-
BODY STYLE: 1 Plug, straight, with mounting ear	s 2	BODY STYLE: Receptacle, straight, with mounting ears	
BODY MATERIAL: Black annodized side shield (PP Nickel plated side shield (PPS)	S) 2 5	BODY MATERIAL: Black annodized side shield (PPS) Nickel plated side shield (PPS)	
	SIZE]
448, 604		448, 604]
	CONTACTS	6	
TYPE CONTACTS/TERMINATION 19 Pin, SMT, .014" x .007" tail, scororganizer removal (see R-56) 39 Pin, SMT, .014" x .007" tail, unso	red for 75 76	TYPE CONTACTS/TERMINATIONS: Socket, straight, dip solder, .250" x .018" dia Socket, straight, solder cup Socket, straight, flex, .093" x .017" dia Socket, straight, dip solder, .109" x .018" dia Socket, straight, dip solder, .140" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, press-fit, .188" (Board: .093" - Socket, straight, press-fit, .308" (Board: .156" - Socket, straight, press-fit, .388" (Board: .250"+	.200" thk)
PLATING OPTIONS: Pre-tinned termination, SnPb all Pre-tinned termination, SAC305		PLATING OPTIONS: Gold plated termination Pre-tinned termination, SnPb alloy (dip solder of Pre-tinned termination, SAC305 alloy (dip solder)	
	HARDWAR	E	
STYLE OF HARDWARE: 0256 None 83 Fixed jackset, reversed, installe 90 Guide pins, full round, installed 93 Fixed jackset, installed 95 Guide pins, polarized, unassem 9501 - 9536 Guide pins, polarized, i 99 Guide pins, universal, installed	82 83 84 abled 91 92 93 94 96 960 97	STYLE OF HARDWARE: 6 None Hex turning jackset, reversed, installed, .200 leads fixed jackset, reversed, installed, #4-40 x .24 fixed jackset, reversed, installed, #4-40 x .32 Guide sockets, full round, installed, #4-40 x .32 Hex turning jackset, installed, .200 knob fixed jackset, installed, #4-40 x .247 thd ext fixed jackset, installed, #4-40 x .320 thd ext Guide sockets, polarized, unassembled, #4-40 to .9636 Guide sockets, polarized, installed, #4-40 to .9736 Guide sockets, polarized, installed, #4-40 to .9736 Guide sockets, polarized, installed, #4-40 to .200 knob fixed jackset, polarized, unassembled, #4-40 to .9736 Guide sockets, polarized, installed, #4-40 to .200 knob fixed jackset, universal, installed, #4-40 to .200 knob fixed jackset, installed, #4-40 t	7 thd ext 0 thd ext 147" thd ext 0 x .320" thd ext 1-40 x .320" thd ext 0 x .247" thd ext 1-40 x .247" thd ext
POLARIZATION: 00 None 01 thru 36 are special identifiers, s	ee page R-57 00	POLARIZATION: None thru 36 are special identifiers, see page R-57	
	OPTIONS		

9XX SMT configuration code, see page R-56



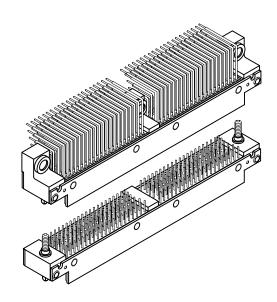
6 · ROW Right Angle PTH Plug Straight PTH Plug

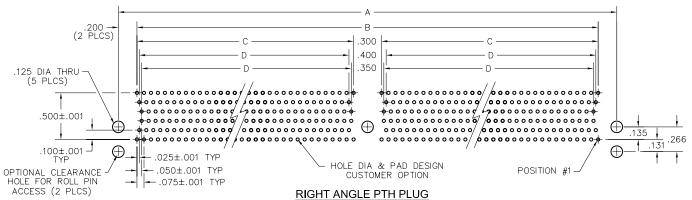
.075"

RM6

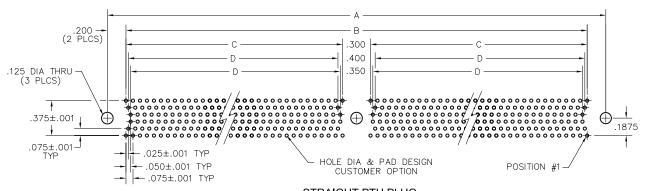
448 & 604 Contacts Recommended Board Layout

DIMENSIONS								
SIZE	Α	В	С	D				
448	6.250	5.850	2.775	2.700				
604	8.200	7.800	3.750	3.675				





PC BOARD VIEWED FROM COMPONENT SIDE



STRAIGHT PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE		CONTACT ID			SIZE		CONTA	ACT ID	
448	(448)(443)(442) (447)(444)(441) (446)(443)(440) (222)(219)(216) (223)(220)(217) (224)(221)(218)	(34)(34)(33) (34)(34)(33) (34)(34)(33) (12)(117)(14) (12)(118)(15) (119)(116)(113)	(536)(533)(538) (534)(533)(528) (533)(532)(529) (111)(08)(05) (10)(07)(04) (12)(09)(06)	23)(228(225) (23)(229(226) (23)(23)(227) (9) (6) (3) (8) (5) (2) (7) (4) (1)	604	604(60)(598) 603(600)(597) 602(599(596) (500)(297(594) (301(298(295) (502)(299(296)	(46)(45)(454) (46)(459)(456) (46)(458)(456) (159)(156)(153) (160)(157)(154) (158)(153)(152)	(45)(45)(447) (45)(448)(445) (45)(449)(446) (150)(147)(144) (149)(146)(143) (15)(148)(145)	(503/306/303/304/ (311/303/304/ (311/303/305/ (9 6 3) (8 5 2) (7 4 1)

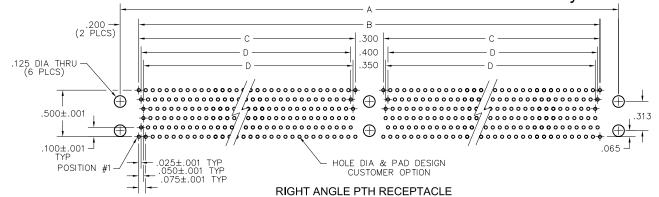


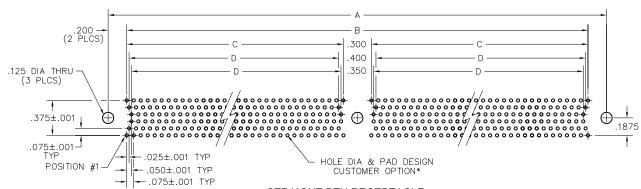
Right Angle PTH Rcpt Straight PTH Rcpt

DIMENSIONS						
SIZE	Α	В	C	О		
448	6.250	5.850	2.775	2.700		
604	8.200	7.800	3.750	3.675		

.075" **RM6**

448 & 604 Contacts Recommended Board Layout





STRAIGHT PTH RECEPTACLE PC BOARD VIEWED FROM COMPONENT SIDE

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			
448	(225)(28)(23) (330)(333)(336) (337)(340)(343) (442)(445)(446) (226)(229)(32) (326)(33)(334) (339)(342)(345) (441)(444)(447) (227)(230)(233) (329)(33)(335) (338)(341)(344) (440)(443)(446) (3) (6) (9) (105)(108)(111) (114)(117)(120) (216)(219)(222) (2) (5) (8) (104)(107)(110) (115)(118)(12) (217)(220)(223) (1) (4) (7) (106)(109)(112) (13)(16)(119) (218)(22)(224)	604	(303/306/309) (447/450/453) (454/457/460) (598/601/604) (304/307/310) (445/448/45) (456/459/462) (597/600/603) (305/308/311) (446/449/452) (455/458/461) (596/599/602) (3 6 9) (144)(147/150) (53/156/159) (294/297/300) (2 5 8) (143/146/149) (54/157/160) (293/298/301) (1 4 7) (143/148/151) (152/155/158) (296/299/302)			

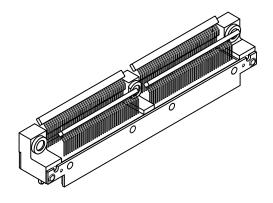


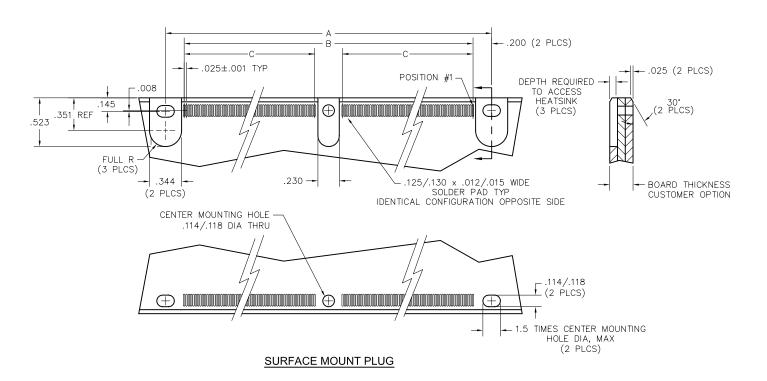
Straight SMT Plug .075"

RM6

448 & 604 Contacts Recommended Board Layout

DIMENSIONS					
SIZE	Α	В	C		
448	6.250	5.850	2.775		
604	8.200	7.800	3.750		





SIZE	CONTACT ID		CONTACT ID			
448	C2245 C4485 C2225 C4465 C2215 C4465 C2215 C4465 C2205 C4445 C1175 C3415 C1165 C3395 C1175 C3365 C1175 C3265 C1175 C3265	604	C3022 C6042 C3002 C6042 C2992 C6012 C2993 C6012 C2983 C6002 C1563 C4573 C1563 C4573 C1563 C4573 C1563 C4573 C1563 C4573 C1563 C4563 C1563 C4513 C1563 C4513 C1563 C4513 C1563 C4513 C1563 C4513 C1563 C4513 C1764 C4513 C1765			



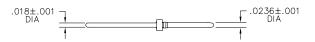
Contacts 6 Row

Pins and Sockets

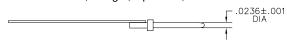
PINS



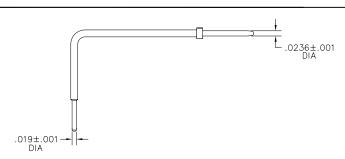
Pin, straight, solder cup



- Pin, straight, dip solder, .109"
- Pin, straight, dip solder, .140"
- 53 Pin, straight, dip solder, .172"
- Pin, straight, dip solder, .250"



Pin, SMT, .014" x .007"



- Pin, right angle, dip solder, .109" x .019" dia 31
- 32
- Pin, right angle, dip solder, .140" x .019" dia Pin, right angle, dip solder, .172" x .019" dia 33
- Pin, right angle, dip solder, .250" x .019" dia

SOCKETS



- Socket, straight, dip solder, .109"
- Socket, straight, dip solder, 140" 82
- Socket, straight, dip solder, .172"



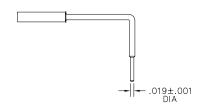
Socket, straight, solder cup



Socket, straight, flex circuit, .093"



- Socket, straight, press-fit, .203" (Board: .093"-.125")
- Socket, straight, press-fit, .308" (Board: .156"-.200") 88
- Socket, straight, press-fit, .403" (Board: .250 or <)



- Socket, right angle, dip solder, .109" 84
- 85 Socket, right angle, dip solder, .140"
- 86 Socket, right angle, dip solder, .172"



Specifications - Stackable Compliant Pin Connectors (075) Materials and Finishes *

Contacts: BeCu, per ASTM-B768 (BeCu C17410 Brush Alloy 174).

Contact Finish: 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.

Guide Pins, BeCu per ASTM-B-196, ASTM-B-197, Nickel plated per QQ-N-290.

Guide Sockets:

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: Unless otherwise specified: Fractions = $\pm 1/64$ "

Decimals = $\pm .010$ " Angles = $\pm 5^{\circ}$

Note: AirBorn can manufacture special configurations for your exact specifications.

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



Performance - 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: 750 V, RMS, 60 Hz @ sea level

Insulation Resistance: 5,000 megohms minimum @ 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 w/.0246" dia. test pin

Contact Separation Force: 0.5 oz. (14 g.) minimum w/.0226" dia. 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:

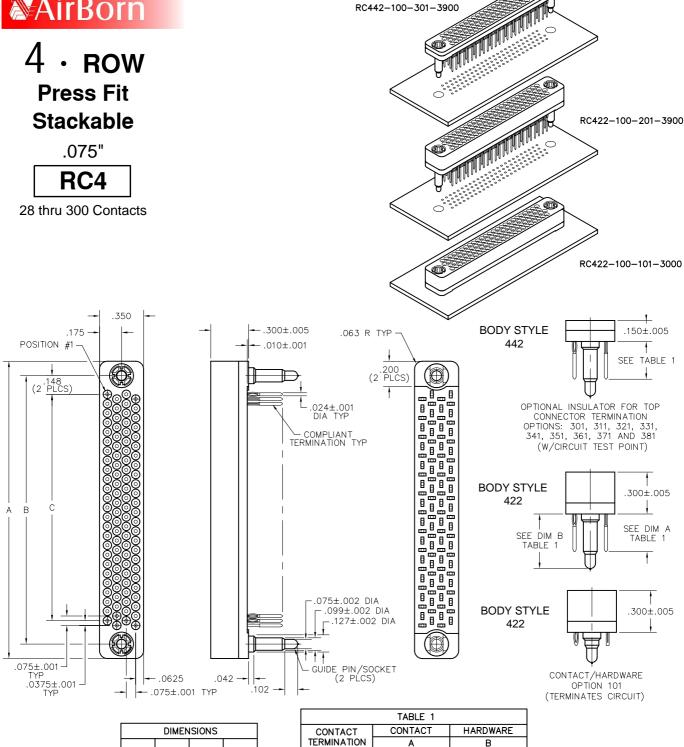
Board material ... FR-4 with 1.0 oz. copper.

Minimum board thickness058". Drilled Hole0319" - .0339".

Copper plating thickness0010" minimum Tin-lead plating thickness0003" minimum. Electroplated tin-lead composition ... 63/37 (Sn/Pb)

Finished hole diameter028" ±.002





DIMENSIONS					
SIZE	Α	В	O		
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	CONTACT	HARDWARE
TERMINATION	Α	В
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



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

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:

		• •
201	Socket contact, press fit tail .270" (Use v	with body style 422 only)
101	Socket contact, press fit tall .095" (Use v	with body style 422 only)

Socket contact, press fit tail .300" (Use with body style 422 only)
 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)

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)

Socket contact, press fit tail .900" (Use with body style 422 only)
Socket contact, press fit tail .600" (Use with body style 422 only)

Socket contact, press fit tail 1.000" (Use with body style 422 only)

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		FIXED J	JACKSOCKET (to mate with RC cable only)
3000	Use with -101 contact	30FT	Use with -101 contact
3900	Use with -201 or -301 contact	39FT	Use with -201 or -301 contact
4000	Use with -211 or -311 contact	40FT	Use with -211 or -311 contact
4100	Use with -221 or -321 contact	41FT	Use with -221 or -321 contact
4200	Use with -231 or -331 contact	42FT	Use with -231 or -331 contact
4300	Use with -241 or -341 contact	43FT	Use with -241 or -341 contact
4400	Use with -251 or -351 contact	44FT	Use with -251 or -351 contact
4500	Use with -261 or -361 contact	45FT	Use with -261 or -361 contact
4600	Use with -271 or -371 contact	46FT	Use with -271 or -371 contact
4700	Use with -281 or -381 contact	47FT	Use with -281 or -381 contact

4 Row Press Fit Stackable Tools Available:

Cap Removal Tool - AirBorn part number CDG10056

Contact Removal Tool - AirBorn part number CDG10057









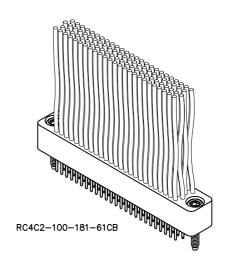


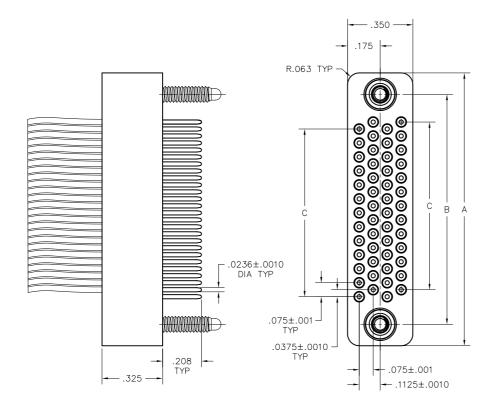
4 · ROW Press Fit Stackable Cable Mate

.075"

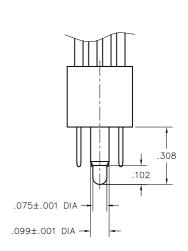
RC4

28 thru 152 Contacts

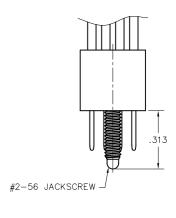




	DIMENSIONS						
SIZE	Α	В	С				
28	1.014	.784	.450				
52	1.464	1.234	.900				
76	1.914	1.684	1.350				
100	2.364	2.134	1.800				
128	2.889	2.659	2.325				
152	3.339	3.109	2.775				



HARDWARE STYLE 57



HARDWARE STYLE 61



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

028, 052, 076, 100, 128, 152

CONTACTS

SIZE

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

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

WIRE CODES-

TYP	E and CO	LENG	GTH	
Code Mil-W-1	Size 6878/4	Color	Code	Length (+1"/-0")
C D E F G H J K	24 awg 24 awg 26 awg 26 awg 28 awg 28 awg 30 awg 30 awg	Ten repeating White	A B C D E F G H	6" 12" 18" 24" 30" 36" 42" 48"
Mil-W-2 N P R S T U V	2759/33 24 awg 24 awg 26 awg 26 awg 28 awg 28 awg 30 awg 30 awg	Ten repeating White	J K L M N P R S	54" 60" 66" 72" 84" 96" 108" 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



4 · ROW

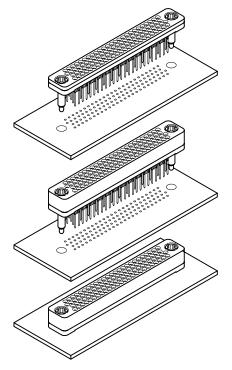
Press Fit Stackable

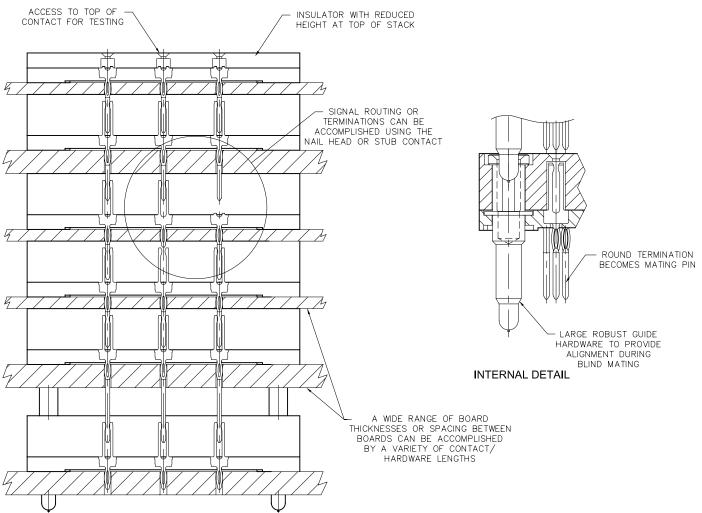
.075"

RC4

28 thru 300 Contacts

Typical Applications







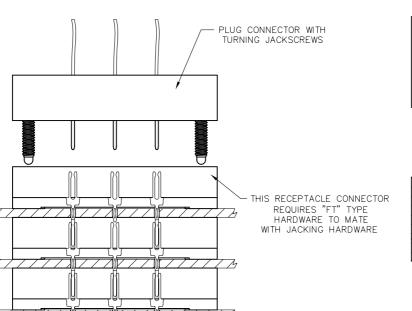
ROW · 4 Press Fit Stackable with Cable Mate

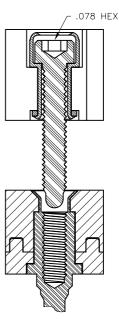
.075"



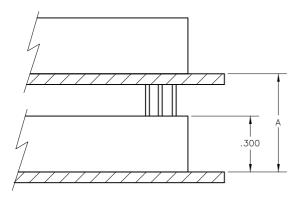
28 thru 152 Contacts

Typical Applications





INTERNAL DETAIL



Determine Required Termination Lean 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-82.



$4 \cdot \text{ROW}$

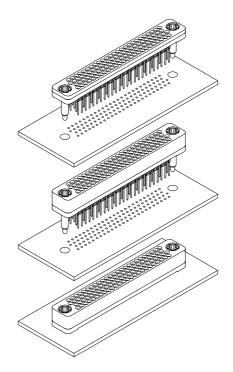
Press Fit Stackable

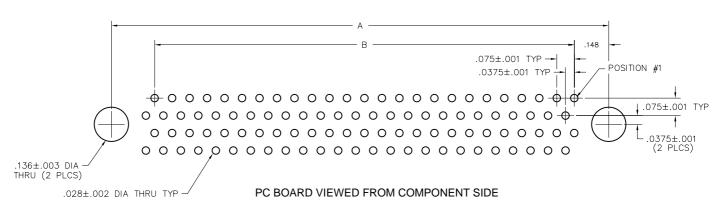
.075"

RC4

28 thru 300 Contacts

Recommended Board Layout





SIZE	CONTACT ID	SIZE	CONTACT ID		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)
52	13 12 11 3 2 1 26 25 24 (16 15 14) 39 38 37 (29 28 27) (52 51 50 (42 41 40)	128	32 31 30 3 2 1 64 63 62 35 34 33 96 95 94 67 66 65 128 (27 126 99 98 97)	252	(63) (62) (61) (3) (2 1) (126)(125)(124) (66) (65) (64) (189)(188) (187) (129)(128)(127) (252)(251)(250) (192)(191)(190)
76	19 18 17 3 2 1 38 37 36 22 21 20 57 56 55 41 40 39 76 75 74 60 59 58	152	38 (37) (36) (3) (2) 1 (76) (75) (74) (41) (40) (39) (114) (113) (112) (79) (78) (77) (152) (151) (150) (117) (116) (115)	300	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	Α	В
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

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