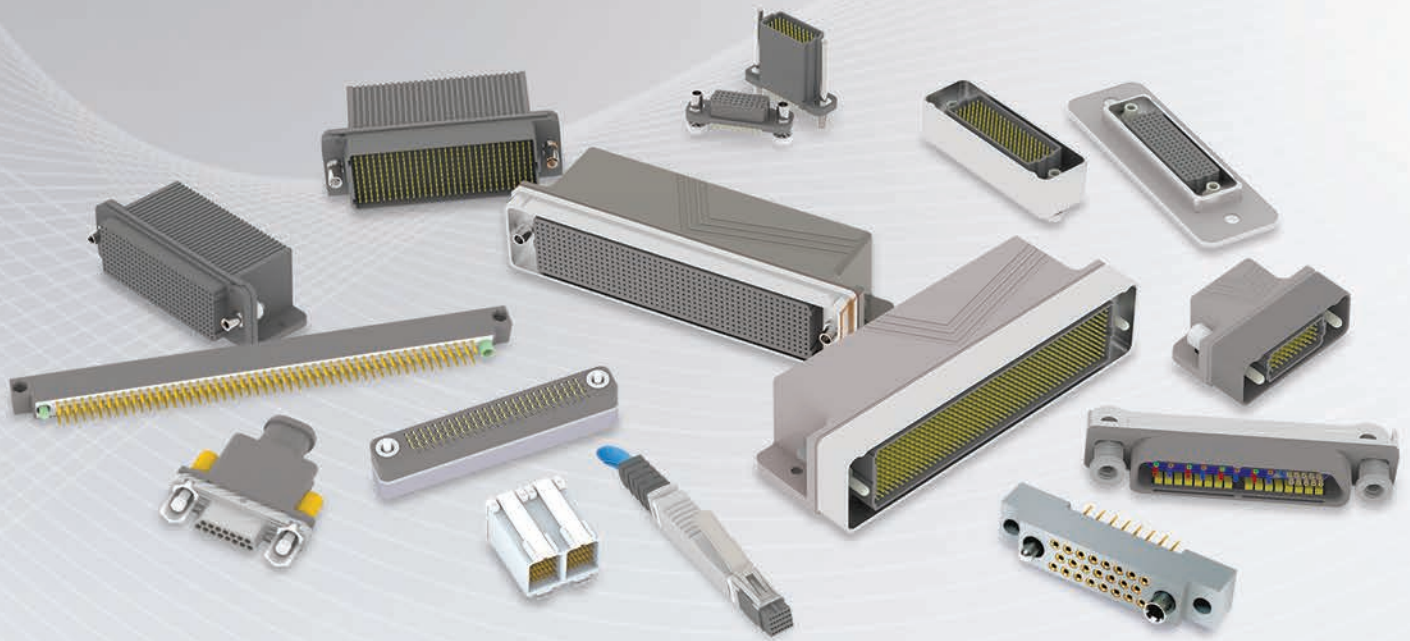




Mission Critical Electronic Components





About AirBorn

AirBorn is a 100% employee owned company specializing in engineering & manufacturing interconnect solutions for OEMs. AirBorn's rugged & reliable connectors are trusted to perform in the most severe field conditions imaginable. Our products support industries including:

- Aerospace
- Energy
- Geophysical
- Industrial
- Instrumentation
- Marine
- Medical
- Military & Defense
- Space Exploration
- Network & Storage
- Telecommunications

Value-Added Services

AirBorn's value-added services expand our capabilities well beyond standard and custom connectors. With all of our customer-centric services offered under one roof, we eliminate costly mark-ups and save you time.

- Cable Assembly
- Chassis/Box Builds
- Categorical Qualification
- Fiber Optics
- Flexible Circuit Assembly
- Engineering Services
- Lab Services
- PCB Assembly
- Wire Harnesses

The culture at AirBorn embraces both Six Sigma & LEAN manufacturing principals. AirBorn products are trusted to perform in extreme conditions where **mission-critical reliability** is vital to success. Customers trust AirBorn products and have stayed **AirBorn Connected™** for over 57 years.

Companies today are looking for
MORE THAN merely a **SUPPLIER...**
They're looking for a **STRATEGIC PARTNER** to
collaborate & **GROW** with.



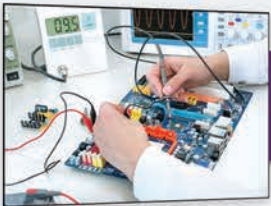
Concept Development



Detailed Design & Engineering



Quick-Turn Prototyping



Test, Quality & Qualification



Manufacturing Low- to High-Volumes



Global Packaging & Distribution

Engineering Services

AirBorn's engineering group specializes in new product design & development for OEMs across the globe. Our team of 50+ degreed engineers are the most innovative and committed working in the electronics manufacturing industry today.

Customers can leverage our design & manufacturing expertise throughout the entire product development process. From conceptual design, prototyping, pilot-runs through to mass production, our team will work to get your project completed fast, elegantly and ahead of the competition.

Our global sales presence coupled with our choice of strategic global distribution partners means greater responsiveness when procuring AirBorn's products, no matter where you do business.



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ACCESSORIES

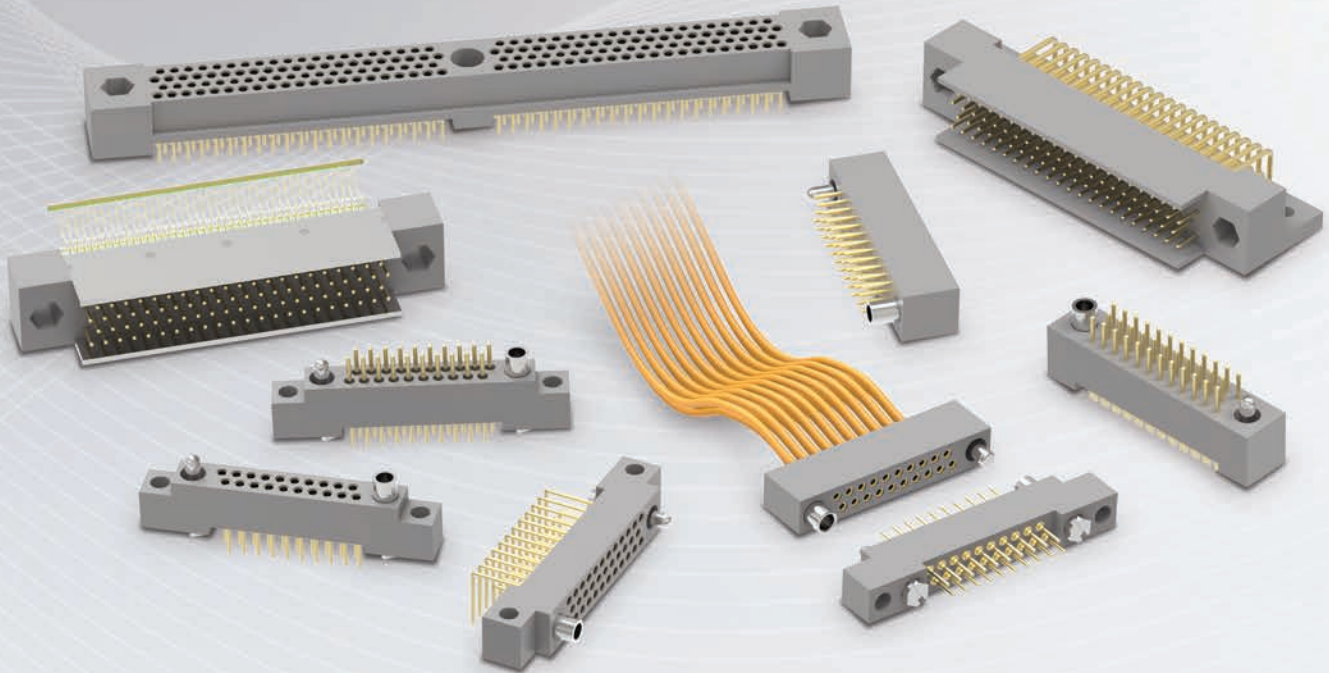
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R Series

High-Density
0.075"
(1.905mm)



Customers depend on R-Series connectors and have for 30+ years

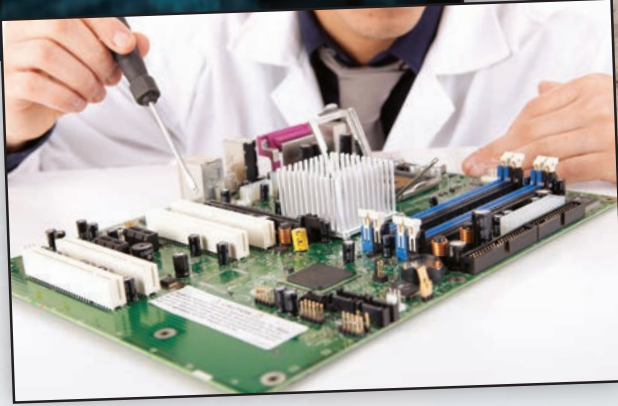
R-Series interconnects are a field-proven technology that have stood the test of time, performing consistently in mission-critical applications. The R-Series offers the largest array of termination, configuration, mounting & hardware options available on the market today.

With a rugged & reliable contact design, R-Series connectors can be trusted to perform every time, especially in extreme environments.

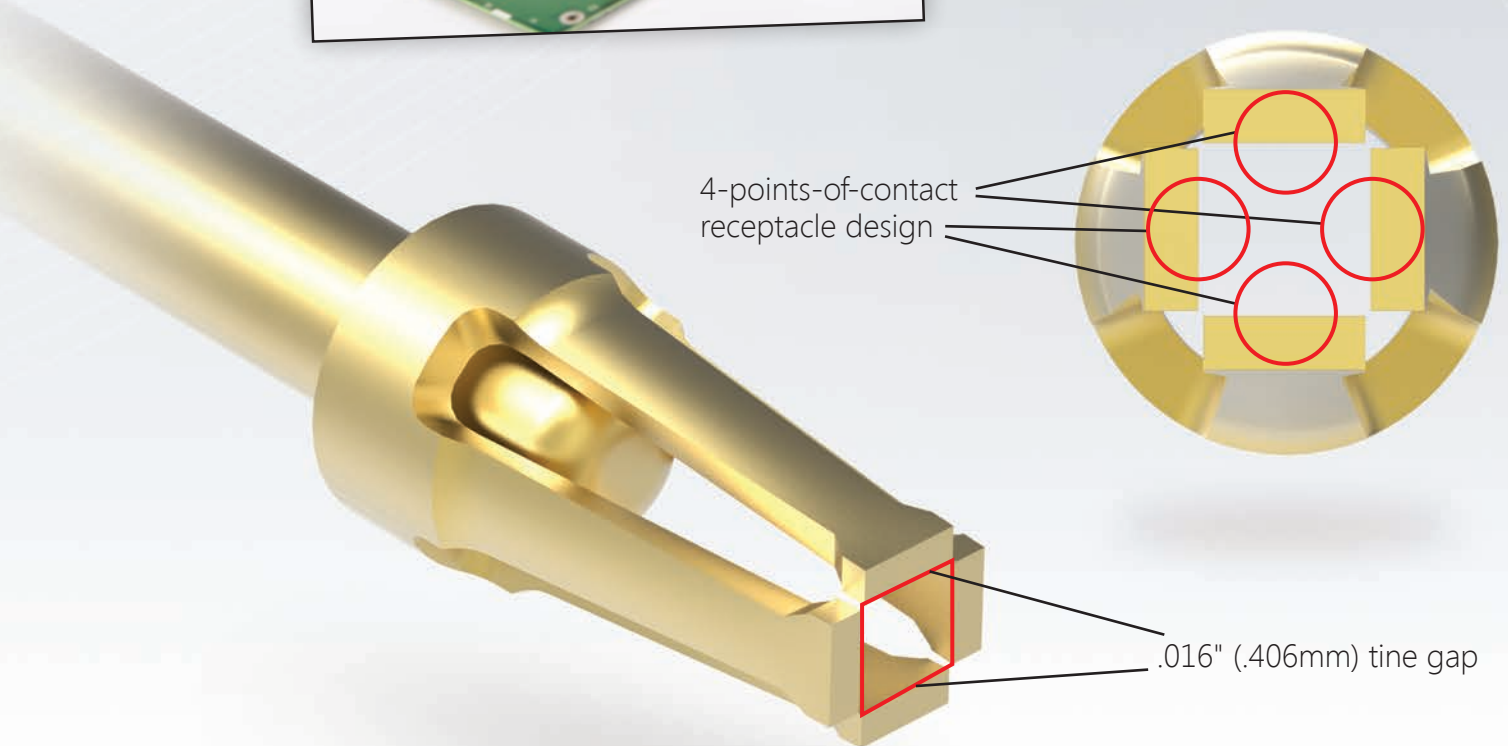
R-Series connectors are **MIL-55302 qualified** and are a trusted component in countless Military & Defense applications. When the success of your design could be the difference between life and death, you can count on R-Series connectors to perform every time. See page 148 to reference Military-to-AirBorn part numbers.

R-Series Connectors

0.075" (1.905 mm)



When your electronic assemblies are used in mission-critical applications, rely on R-Series interconnects.

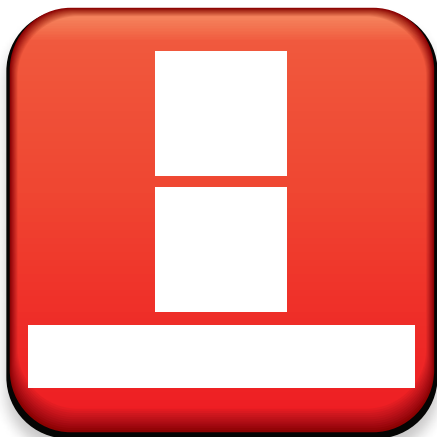


The R-Series spring-member receptacle design creates 4-points-of-contact with mating pins. A .016" tine gap forms to make consistent contact at all times, no matter how demanding the prescribed application.

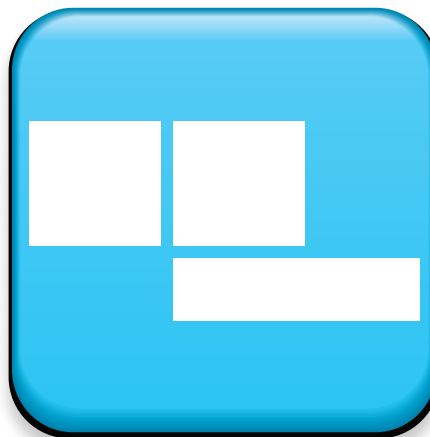
Now you're **AirBorn Connected®**



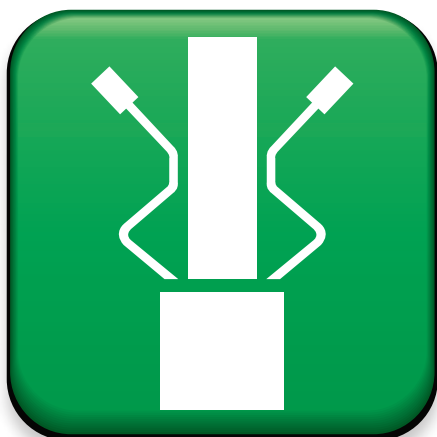
Catalog Section Key



Straight, Rigid-Flex/Board-Mount Connectors



Right-Angle, Board-Mount Connectors



Card-Edge Connectors



Input/Output Connectors



Accessories

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Catalog Icon Key

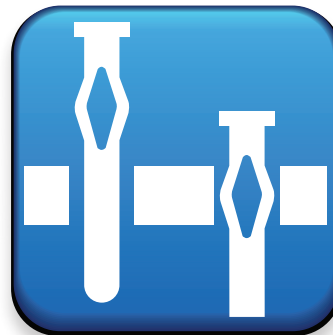
Termination Options



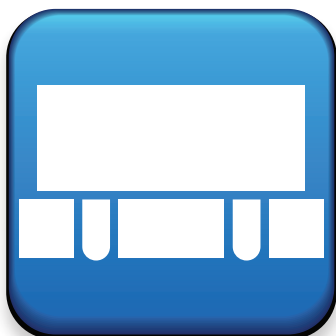
Crimp-Removable



Single-Layer Flex



Press-Fit



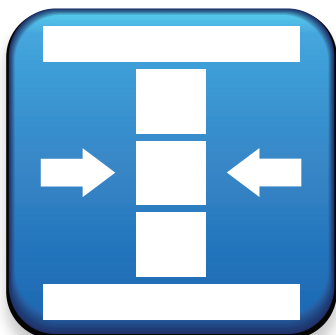
Plated Thru-Hole



Surface-Mount



Solder-Cup



Connector Saver

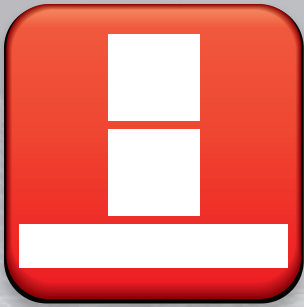


Stackable

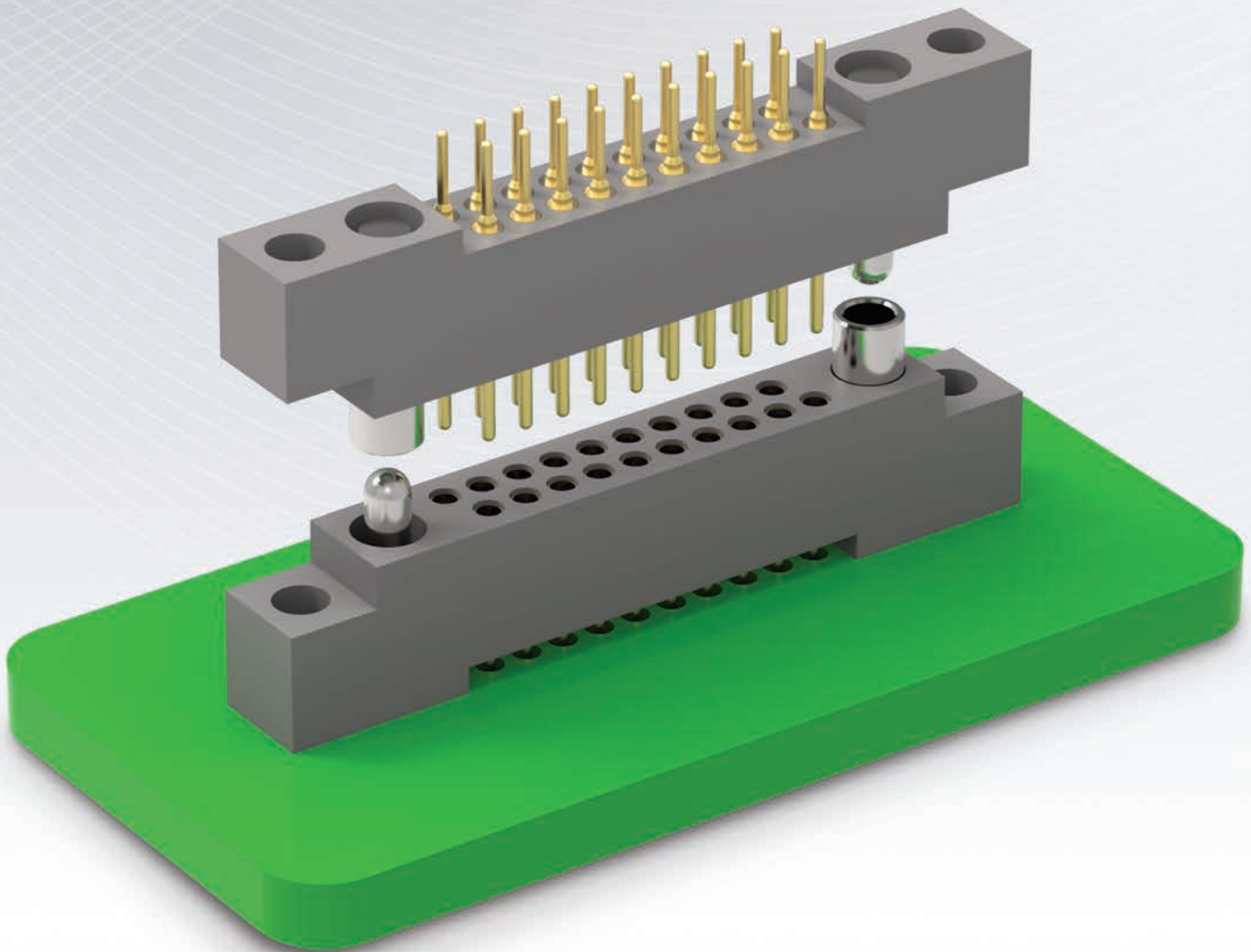


Pre-Terminated

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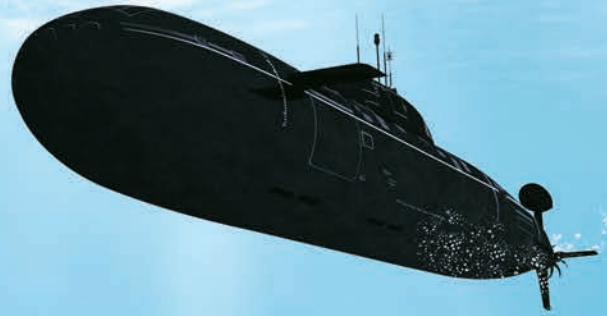


Rigid Flex / Board-Mount, Straight Connectors



R-Series Connectors

0.075" (1.905 mm)



R-Series straight connectors are utilized by our customers in a variety of severe applications. When mission-critical reliability is key to your product's design, R-Series straight connectors are ready for the tough challenges.

- 2, 3, 4 & 6-row options
- 10-604 contacts
- Available with or without mounting ears
- Complete spectrum of termination & hardware options available
- Utilized with traditional FR-4 & rigid flexible circuit boards

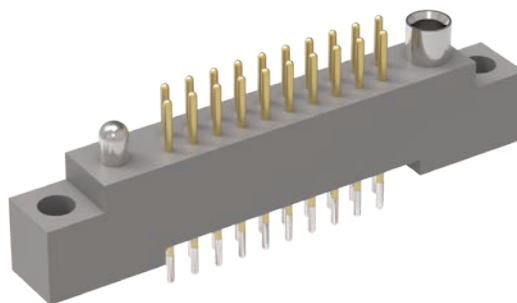
Now you're **AirBorn Connected[®]**


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Two-Row, Straight,
Board-Mount Plug**
Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


Sample Part Number Format: RM212-020-102-5500

SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

2 – 2-Row (10-100 contacts)

STYLE

 1 – Plug, straight with mounting ears
 3 – Plug, straight without mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

 010 – 10 contacts
 020 – 20 contacts
 030 – 30 contacts
 040 – 40 contacts
 050 – 50 contacts
 060 – 60 contacts
 070 – 70 contacts
 080 – 80 contacts
 090 – 90 contacts
 100 – 100 contacts

PLATING

 1 – Gold
 2 – Pre-tinned, SnPb alloy (Plated thru-hole options, only)[‡]
 3 – Pre-tinned, SAC305 alloy (Plated thru-hole options, only)

POLARIZATION

 00 – None
 XX – See page 140 for codes
 70 – Same as above, but without Loctite® (customer-keyed)

TERMINATION

 10 – Plated thru-hole, 0.109" x 0.020" Ø
 12 – Plated thru-hole, 0.140" x 0.020" Ø
 13 – Plated thru-hole, 0.172" x 0.020" Ø
 14 – Plated thru-hole, 0.250" x 0.020" Ø

HARDWARE

 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 jackscrews
 59 – Hex turning jackset, 0.200"
 60 – Hex turning jackset reversed, 0.200"
 61 – Two hex turning jackscrews, 0.200"
 62 – Two hex turning jackscrews, 0.200"
 64 – Turning jackset, 0.490"

Notes:
[‡] Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

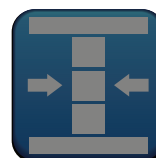
Mates with

RM222 & RM242 — Two-row, straight receptacle

RM262 & RM282 — Two-row, right-angle receptacle

RM2 — Two-row, I/O receptacle

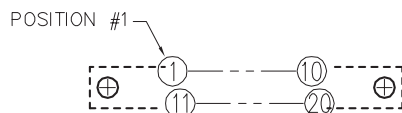
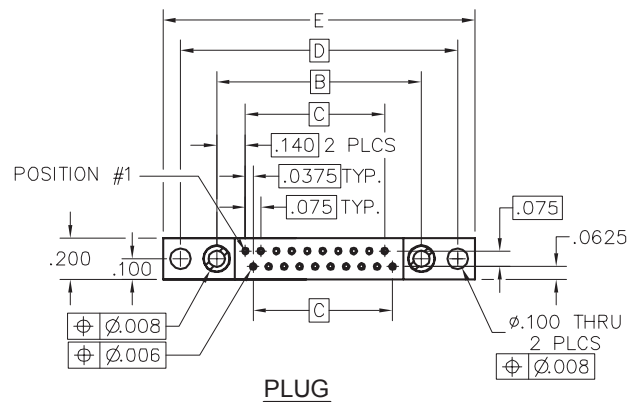
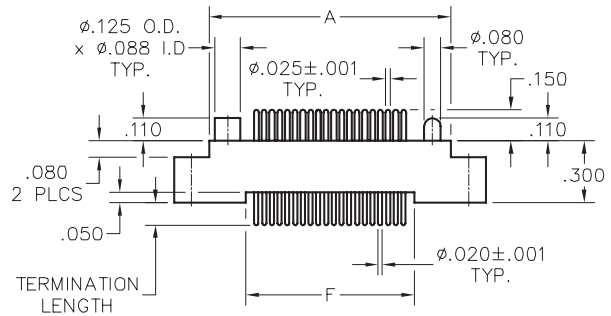
RA2 — Two-row, I/O receptacle

Terminations


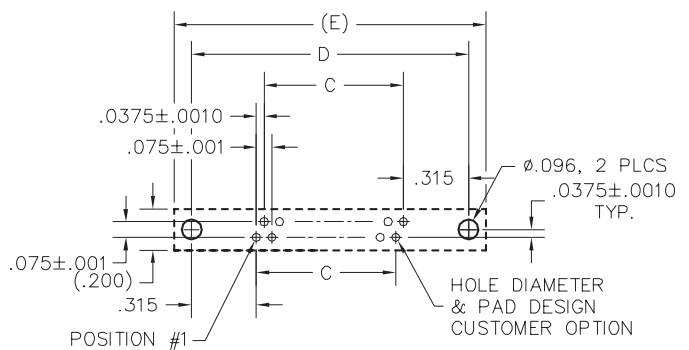
RM – Two-Row, Straight, Board-Mount Plug

Plastic ▪ 2-Row ▪ 10-100 Contacts

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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 20 POSITION CONNECTOR)



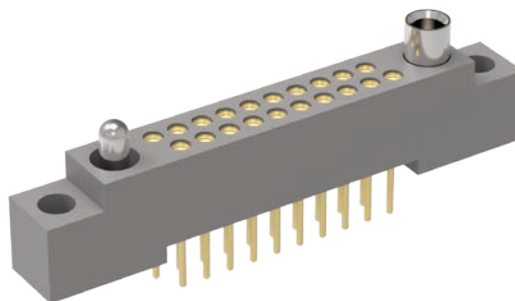
PCB LAYOUT VIEWED
FROM COMPONENT SIDE

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Two-Row, Straight,
 Board-Mount Receptacle**
Contact Spacing: 0.075" (1.91 mm)

 R-Series products are high-density, plastic
 connectors commonly used in board-to-board
 applications. Approved to MIL-55302 standard.

**2
Row**
Sample Part Number Format: RM222-100-212-5500

SERIES
 0.075" Plastic
 Rectangular
 Connector
 (Receptacle)

ROWS
 2 – 2-Row
 (10-100
 contacts)

STYLE
 2 – Receptacle,
 straight with
 mounting
 ears
 4 – Receptacle,
 straight
 without
 mounting
 ears

BODY MATERIAL
 2 – Polyphenylene
 sulfide (PPS)

SIZE
 010 – 10 contacts
 020 – 20 contacts
 030 – 30 contacts
 040 – 40 contacts
 050 – 50 contacts
 060 – 60 contacts
 070 – 70 contacts
 080 – 80 contacts
 090 – 90 contacts
 100 – 100 contacts

PLATING
 1 – Gold
 2 – Pre-tinned, SnPb alloy (Plated
 thru-hole options, only)[‡]
 3 – Pre-tinned, SAC305 alloy
 (Plated thru-hole options, only)

POLARIZATION
 00 – None
 XX – See page 140
 for codes
 70 – Same as above,
 but without
 Loctite®
 (customer-
 keyed)

TERMINATION
 20 – Plated thru-hole, 0.109" x 0.020" Ø
 21 – Plated thru-hole, 0.140" x 0.020" Ø
 22 – Plated thru-hole, 0.172" x 0.020" Ø
 23 – Plated thru-hole, 0.250" x 0.020" Ø
 50 – Plated thru-hole, 0.140" x 0.016" Ø
 51 – Plated thru-hole, 0.172" x 0.016" Ø
 64 – Press-fit, 0.203" (board 0.093 – 0.125" thick)
 65 – Press-fit, 0.323" (board 0.156 – 0.200" thick)
 66 – Press-fit, 0.403" (board .250" or thicker)

HARDWARE
 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 jackscrews
 59 – Hex turning jackset, 0.200"
 60 – Hex turning jackset reversed, 0.200"
 61 – Two hex turning jackscrews, 0.200"
 62 – Two hex turning jackscrews, 0.200"
 64 – Turning jackset, 0.490"

Notes:
[‡] Not RoHS-compliant

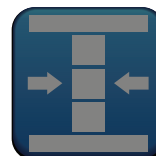
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM212 & RM232 — Two-row, straight plug

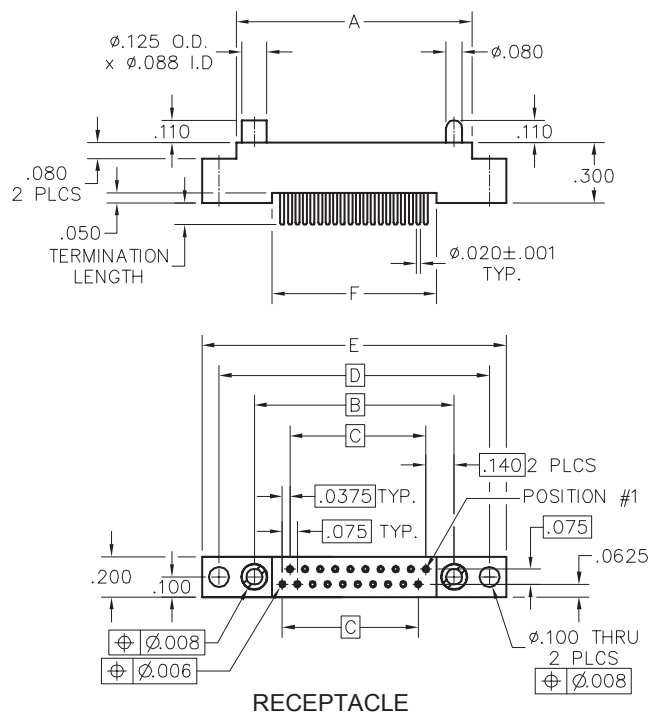
 RM252 & RM272 — Two-row,
 right-angle plug

RM2 — Two-row, I/O plug

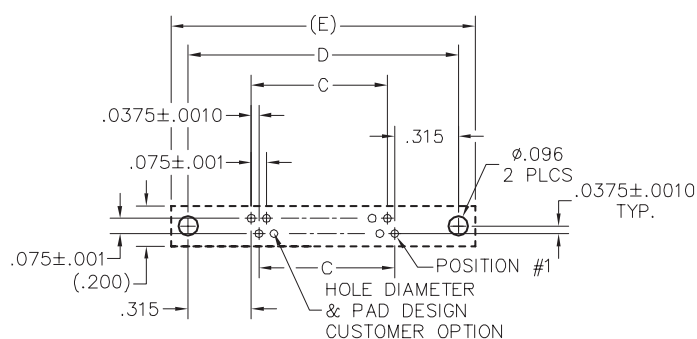
Terminations


RM – Two-Row, Straight, Board-Mount Receptacle

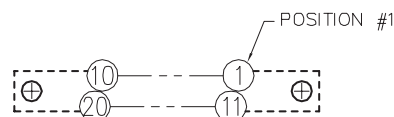
Plastic ▪ 2-Row ▪ 10-100 Contacts



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



PCB LAYOUT VIEWED
FROM COMPONENT SIDE



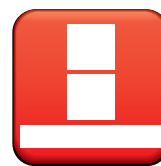
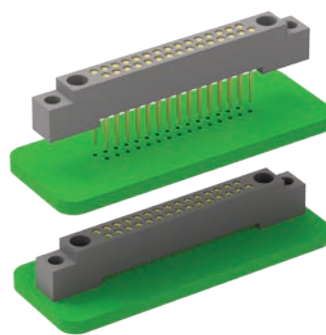
PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 20 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Two-Row, Straight, Stackable,
 Board-Mount Receptacle**
Contact Spacing: 0.075" (1.91 mm)

 R-Series products are high-density, plastic
 connectors commonly used in board-to-board
 applications. Approved to MIL-55302 standard.

**2
Row**
Sample Part Number Format: RM222-030-531-0256

SERIES

 0.075" Plastic
 Rectangular
 Connector
 (Receptacle)

ROWS

 2 – 2-Row
 (10-100
 contacts)

STYLE

 2 – Receptacle,
 straight with
 mounting
 ears
 4 – Receptacle,
 straight
 without
 mounting
 ears

BODY MATERIAL

 2 – Polyphenylene
 sulfide (PPS)

SIZE

 010 – 10 contacts
 020 – 20 contacts
 030 – 30 contacts
 040 – 40 contacts
 050 – 50 contacts
 060 – 60 contacts
 070 – 70 contacts
 080 – 80 contacts
 090 – 90 contacts
 100 – 100 contacts

PLATING

 1 – Gold
 2 – Pre-tinned, SnPb alloy (Plated
 thru-hole options, only)[‡]
 3 – Pre-tinned, SAC305 alloy
 (Plated thru-hole options, only)

HARDWARE

0256 – None

TERMINATION

 53 – Stackable, 0.212" x 0.025" Ø
 54 – Stackable, 0.244" x 0.025" Ø
 55 – Stackable, 0.275" x 0.025" Ø

Notes:
[‡] Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM212 & RM232 — Two-row, straight plug

 RM252 & RM272 — Two-row,
 right-angle plug

RM2 — Two-row, I/O receptacle

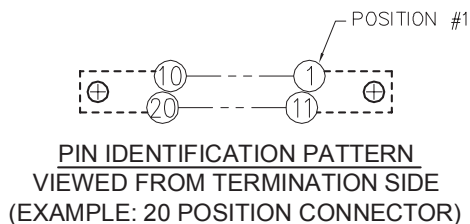
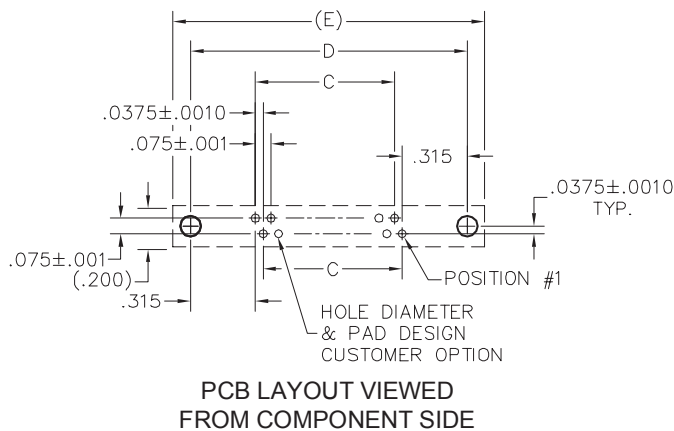
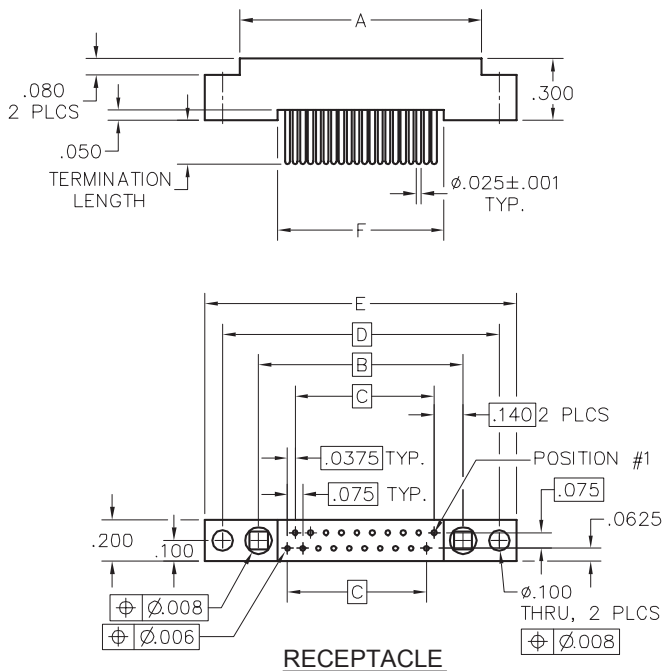
RA2 — Two-row, I/O receptacle

Terminations

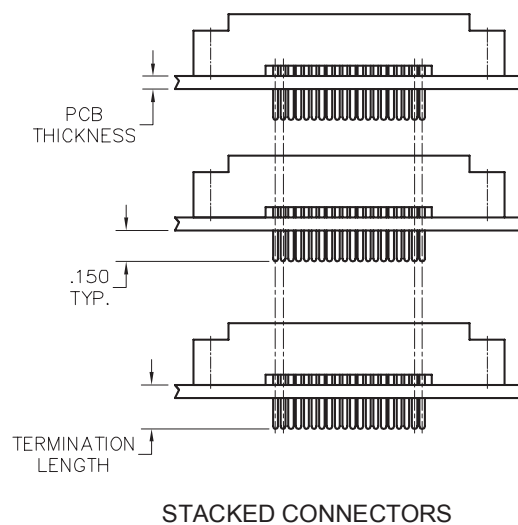



RM – Two-Row, Straight, Stackable, Board-Mount Receptacle

Plastic ▪ 2-Row ▪ 10-100 Contacts



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



NOTES:

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

PC BOARD THICKNESS	TERMINATION LENGTH	PART NUMBER EXAMPLES
.062	.212	RM222-020-531-0256
.094	.244	RM222-020-541-0256
.125	.275	RM222-020-551-0256
CONNECTOR SAVER	.150	RM222-020-291-0256

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



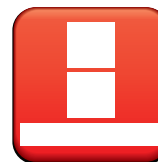
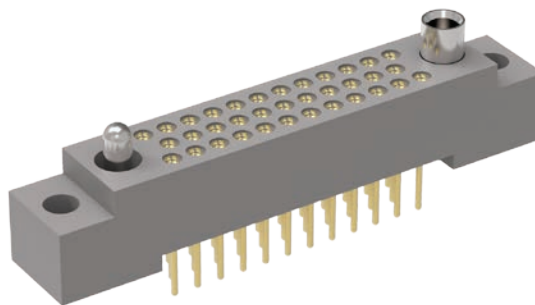
R Series

 High-Density
 0.075"
 (1.905mm)

RM – Three-Row, Straight, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



Sample Part Number Format: RM322-152-211-5500

RM
SERIES
 0.075" Plastic Rectangular Connector (Receptacle)

3
ROWS
 3 – 3-Row (11-206 contacts)

2
STYLE
 2 – Receptacle, straight with mounting ears
 4 – Receptacle, straight without mounting ears

2
BODY MATERIAL
 2 – Polyphenylene sulfide (PPS)

011
SIZE
 011 – 11 contacts
 023 – 23 contacts
 035 – 35 contacts
 047 – 47 contacts
 059 – 59 contacts
 071 – 71 contacts
 080 – 80 contacts
 092 – 92 contacts
 104 – 104 contacts
 122 – 122 contacts
 140 – 140 contacts
 152 – 152 contacts
 182 – 182 contacts
 206 – 206 contacts

1
PLATING
 1 – Gold
 2 – Pre-tinned, SnPb alloy ‡
 3 – Pre-tinned, SAC305 alloy

20
TERMINATION

 20 – Plated thru-hole, 0.109" x 0.020" Ø
 21 – Plated thru-hole, 0.140" x 0.020" Ø
 22 – Plated thru-hole, 0.172" x 0.020" Ø
 23 – Plated thru-hole, 0.250" x 0.020" Ø
 50 – Plated thru-hole, 0.140" x 0.016" Ø
 51 – Plated thru-hole, 0.172" x 0.016" Ø
 64 – Press-fit, 0.203" (board 0.093 – 0.125" thick)
 65 – Press-fit, 0.323" (board 0.156 – 0.200" thick)
 66 – Press-fit, 0.403" (board .250" or thicker)

0256
HARDWARE

 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 jackscrews
 59 – Hex turning jackset, 0.200"
 60 – Hex turning jackset reversed, 0.200"
 61 – Two hex turning jackscrews, 0.200"
 62 – Two hex turning jackscrews, 0.200"
 64 – Turning jackset, 0.490"

POLARIZATION

 00 – None
 XX – See page 140 for codes
 70 – Same as above, but without Loctite® (customer-keyed)

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM312 & RM332 — Three-row, straight plug

RM352 & RM372 — Three-row, right-angle plug

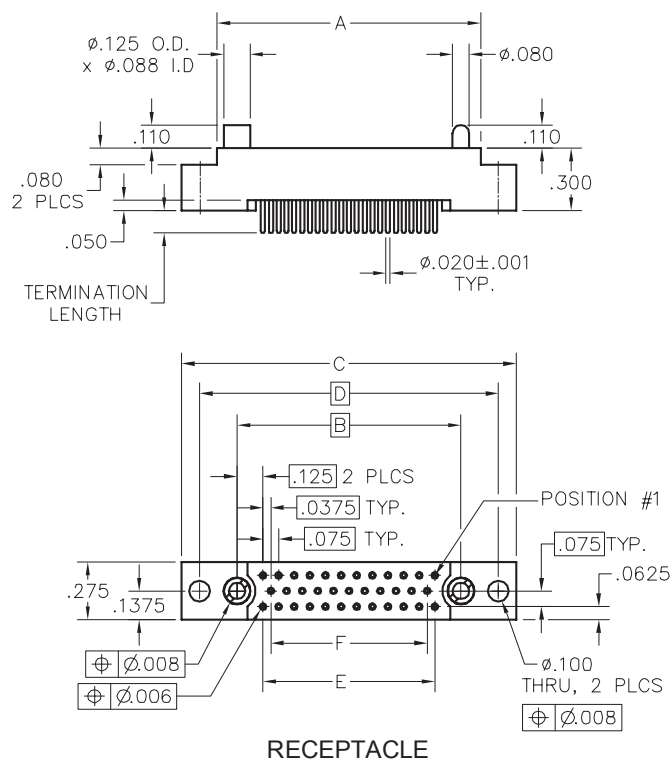
RA3 — Three-row, I/O plug

Terminations

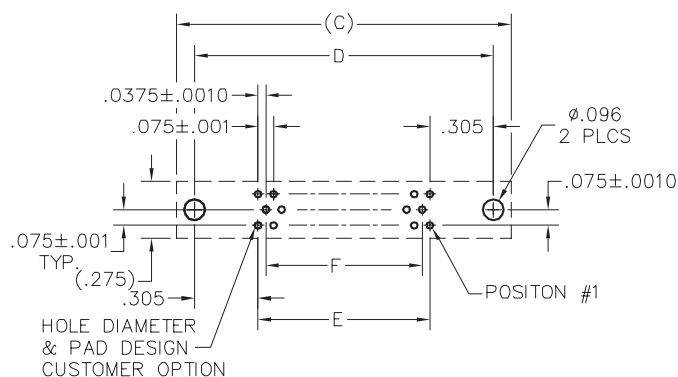


RM – Three-Row, Straight, Board-Mount Receptacle

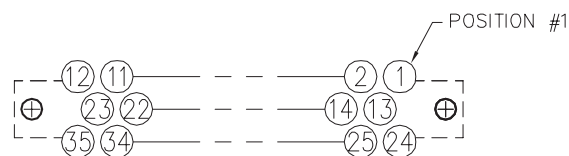
Plastic ▪ 3-Row ▪ 11-206 Contacts



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



PCB LAYOUT VIEWED
FROM COMPONENT SIDE



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)

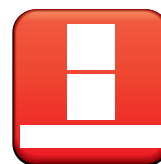
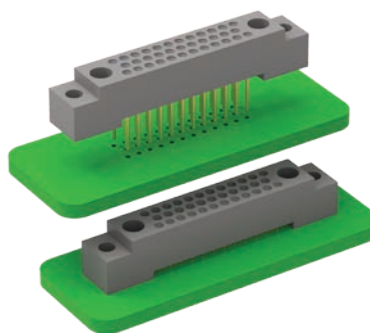
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

RM – Three-Row, Straight, Stackable, Board-Mount Receptacle
Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


Sample Part Number Format: RM322-035-531-0256

SERIES

0.075" Plastic Rectangular Connector (Receptacle)

ROWS

3 – 3-Row (11-206 contacts)

STYLE

 2 – Receptacle, straight with mounting ears
 4 – Receptacle, straight without mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

 011 – 11 contacts
 023 – 23 contacts
 035 – 35 contacts
 047 – 47 contacts
 059 – 59 contacts
 071 – 71 contacts
 080 – 80 contacts
 092 – 92 contacts
 104 – 104 contacts
 122 – 122 contacts
 140 – 140 contacts
 152 – 152 contacts
 182 – 182 contacts
 206 – 206 contacts

PLATING
1 – Gold

 2 – Pre-tinned, SnPb alloy (Plated thru-hole options, only)[‡]
 3 – Pre-tinned, SAC305 alloy (Plated thru-hole options, only)

HARDWARE

0256 – None

TERMINATION

 53 – Stackable, 0.212" x 0.025" Ø
 54 – Stackable, 0.244" x 0.025" Ø
 55 – Stackable, 0.275" x 0.025" Ø

Notes:
[‡] Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM312 & RM332 — Three-row, straight plug

RM352 & RM372 — Three-row, right-angle plug

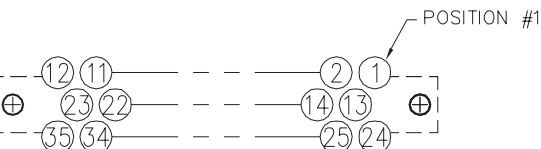
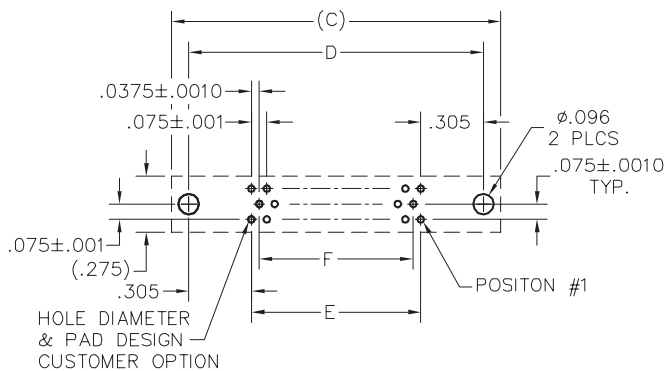
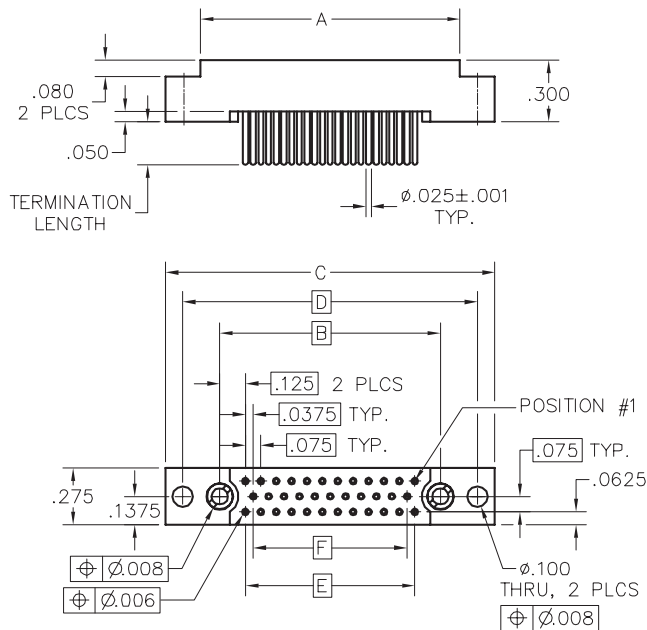
RA3 — Three-row, I/O plug

Terminations



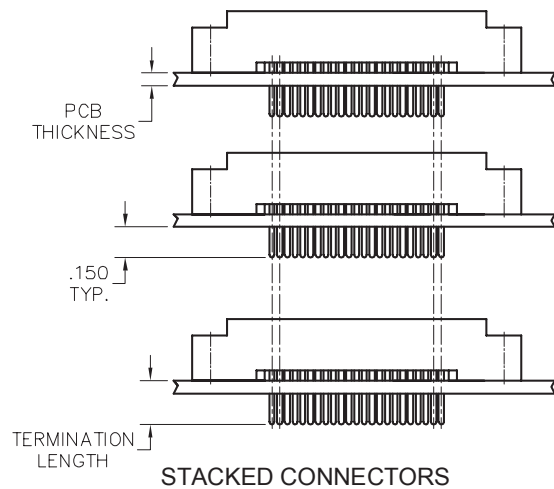

RM – Three-Row, Straight, Stackable, Board-Mount Receptacle

Plastic ▪ 3-Row ▪ 11-206 Contacts



VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)

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



NOTES:

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

PC BOARD THICKNESS	TERMINATION LENGTH	PART NUMBER EXAMPLES
.062	.212	RM332-035-531-0256
.094	.244	RM332-035-541-0256
.125	.275	RM332-035-551-0256
CONNECTOR SAVER	.150	RM332-035-291-0256

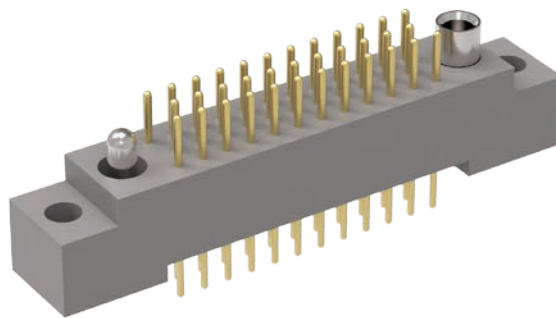
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

RM – Three-Row, Straight, Board-Mount Plug
Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


**3
Row**
Sample Part Number Format: RM332-035-102-5500

RM	3		2						
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 3 – 3-Row (11-206 contacts)	STYLE 1 – Plug, straight with mounting ears 3 – Plug, straight without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts 092 – 92 contacts 104 – 104 contacts 122 – 122 contacts 140 – 140 contacts 152 – 152 contacts 182 – 182 contacts 206 – 206 contacts	PLATING 1 – Gold 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy	TERMINATION 10 – Plated thru-hole, 0.109" x 0.020" Ø 12 – Plated thru-hole, 0.140" x 0.020" Ø 13 – Plated thru-hole, 0.172" x 0.020" Ø 14 – Plated thru-hole, 0.250" x 0.020" Ø	POLARIZATION 00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)	HARDWARE 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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	OPTIONS BN – Bond #1-72, small pattern hex nuts into mounting ears

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

 RM322 & RM342 — Three-row, straight receptacle
 RM362 & RM382 — Three-row, right-angle receptacle
 RA3E, 3F, 3G, 3H — Three-row, I/O receptacle

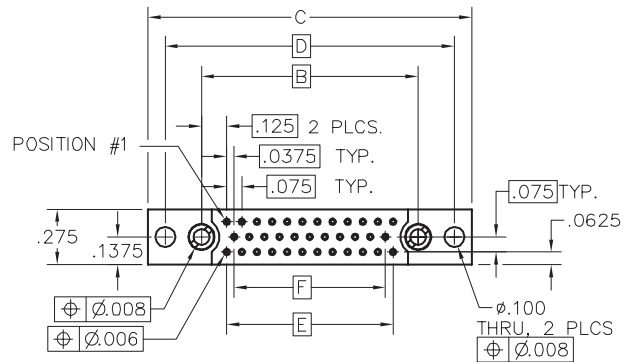
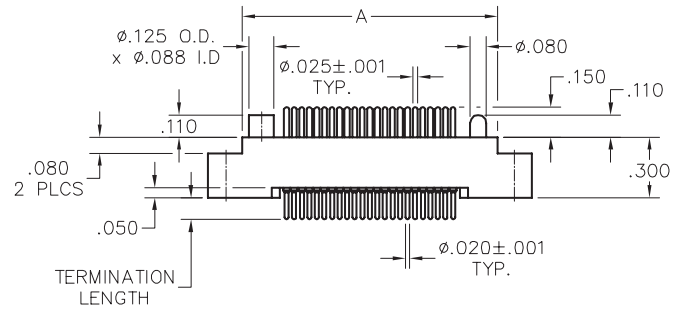
Terminations



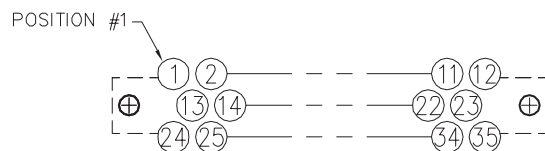

RM – Three-Row, Straight, Board-Mount Plug

Plastic ▪ 3-Row ▪ 11-206 Contacts

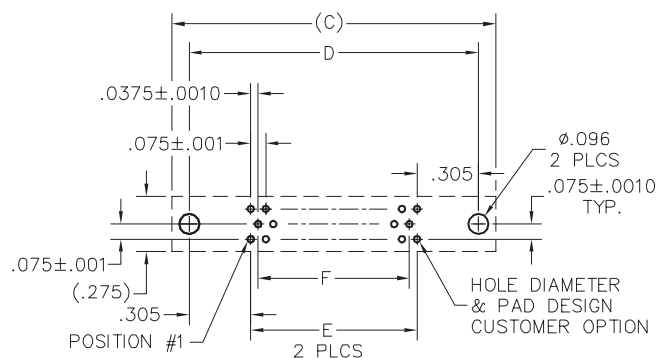
DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875
92	2.690	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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)



PCB LAYOU VIEWED
FROM COMPONENT SIDE

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



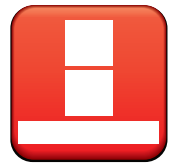
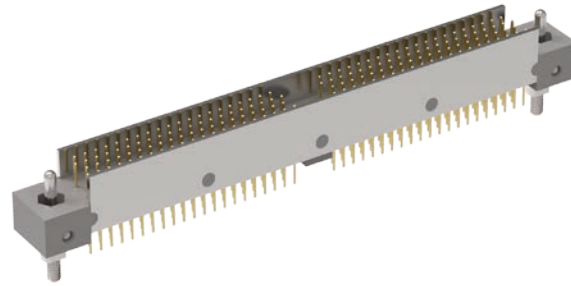
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, Straight, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



Sample Part Number Format: RM412-164-522-9501



SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

4 – 4-Row (86-404 contacts)

STYLE

1 – Plug, straight with mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

086 – 86 contacts
110 – 110 contacts
164 – 164 contacts
196 – 196 contacts
204 – 204 contacts
220 – 220 contacts
250 – 250 contacts
276 – 276 contacts
300 – 300 contacts
404 – 404 contacts

PLATING

1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

TERMINATION

51 – Plated thru-hole, 0.109" x 0.018" Ø
52 – Plated thru-hole, 0.140" x 0.018" Ø
53 – Plated thru-hole, 0.172" x 0.018" Ø
54 – Plated thru-hole, 0.250" x 0.018" Ø

POLARIZATION

00 – None
XX – See page 141 for codes

HARDWARE

0256 – None
84 – Fixed jackset, reversed, #2-56 x 0.320"
90 – Guide pins, full round, #2-56 x 0.320"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
94 – Fixed jackset, #2-56 x 0.320"
95 – Guide pins, polarized, #2-56 x 0.320" **
9501-9536 – Guide pins, polarized, #2-56 x 0.320"
99 – Guide pins, universal, #2-56 x 0.320"

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM422 — Four-row, straight receptacle
RM462 — Four-row, right-angle receptacle
RM422 — Four-row, I/O receptacle

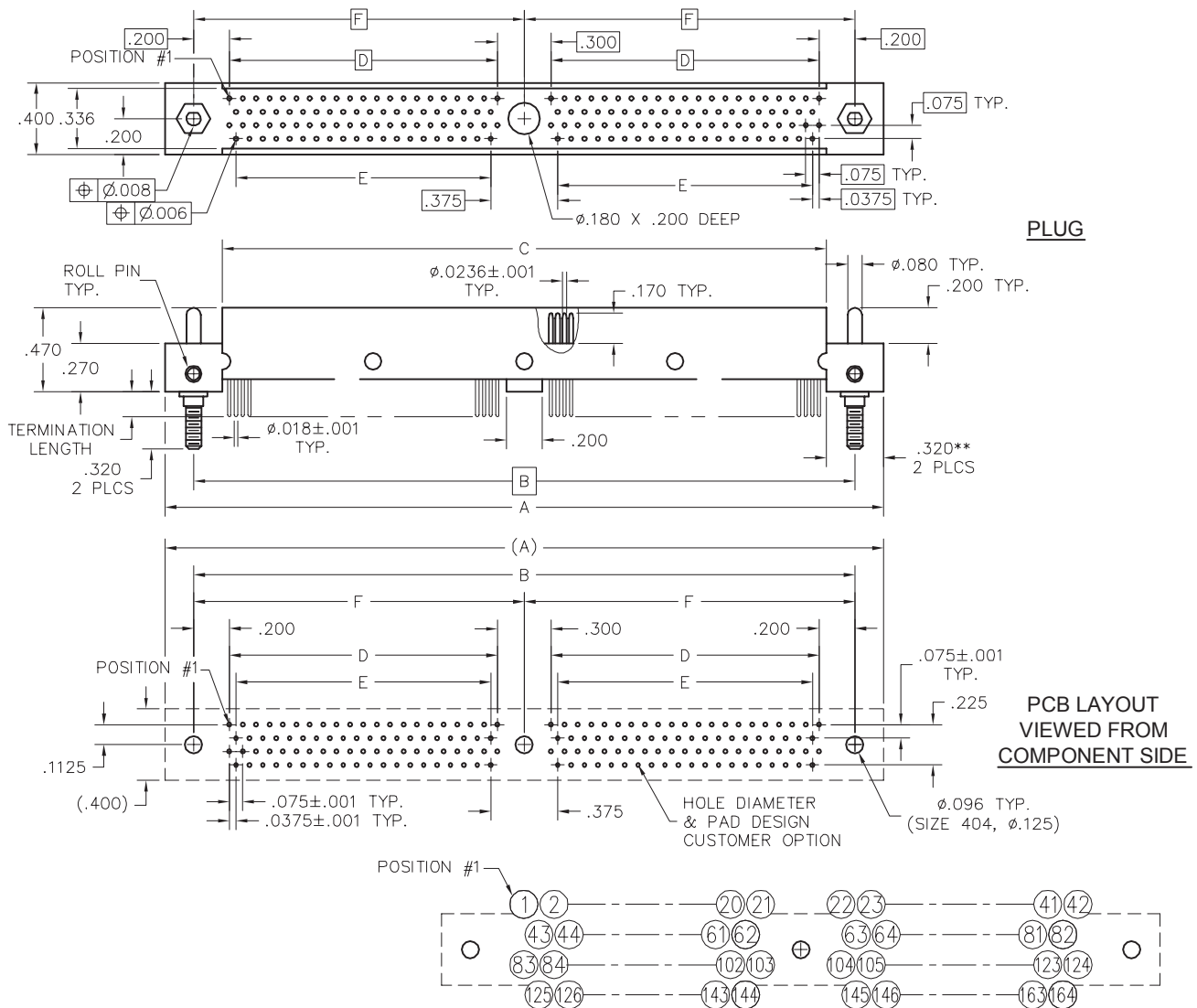
Terminations





RM – Four-Row, Straight, Board-Mount Plug

Plastic ▪ 4-Row ▪ 86-404 Contacts



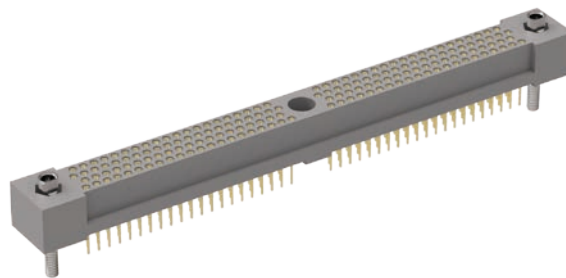
DIMENSIONS						
SIZE	A	B	C	D	E	F
86*	2.255	1.975	1.655	1.575	1.500	—
110*	2.745	2.425	2.105	2.025	1.950	—
164	4.020	3.700	3.380	1.500	1.425	1.850
196	4.620	4.300	3.980	1.800	1.725	2.150
204	4.770	4.450	4.130	1.875	1.800	2.225
220	5.070	4.750	4.430	2.025	1.950	2.375
250*	5.370	5.050	4.730	4.650	4.575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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Four-Row, Straight,
 Board-Mount Receptacle**
Contact Spacing: 0.075" (1.91 mm)

 R-Series products are high-density, plastic
 connectors commonly used in board-to-board
 applications. Approved to MIL-55302 standard.

**4
Row**
Sample Part Number Format: RM422-164-832-9601

SERIES

 0.075" Plastic
 Rectangular
 Connector
 (Receptacle)

ROWS

 4 – 4-Row
 (86-404
 contacts)

STYLE

 2 – Receptacle,
 straight
 without
 mounting
 ears

BODY MATERIAL

 2 – Polyphenylene
 sulfide (PPS)

SIZE

 086 – 86 contacts
 110 – 110 contacts
 164 – 164 contacts
 196 – 196 contacts
 204 – 204 contacts
 220 – 220 contacts
 250 – 250 contacts
 276 – 276 contacts
 300 – 300 contacts
 404 – 404 contacts

PLATING

 1 – Gold
 2 – Pre-tinned,
 SnPb alloy ‡
 3 – Pre-tinned,
 SAC305 alloy

POLARIZATION

 00 – None
 XX – See page 141 for codes

TERMINATION

 75 – Plated thru-hole, 0.250" x 0.018" Ø
 81 – Plated thru-hole, 0.109" x 0.018" Ø
 82 – Plated thru-hole, 0.140" x 0.018" Ø
 83 – Plated thru-hole, 0.172" x 0.018" Ø
 87 – Press-fit, 0.188"
 (board 0.093"–0.125" thick)
 88 – Press-fit, 0.308"
 (board 0.156"–0.200" thick)

HARDWARE

 0256 – None
 84 – Fixed jackset, reversed, #2-56 x 0.320"
 91 – Guide sockets, full round, #2-56 x 0.247"
 92 – Hex turning jackset, 0.200"
 93 – Fixed jackset, #2-56 x 0.247"
 94 – Fixed jackset, #2-56 x 0.320"
 96 – Guide sockets, polarized, #2-56 x 0.320" **
 9601-9636 – Guide sockets, polarized,
 #2-56 x 0.320"
 97 – Guide sockets, polarized, #2-56 x 0.247" **
 9701-9736 – Guide sockets, polarized,
 #2-56 x 0.247"
 98 – Guide sockets, universal, #2-56 x 0.247"

Notes:

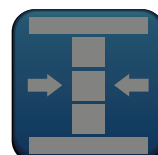
‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

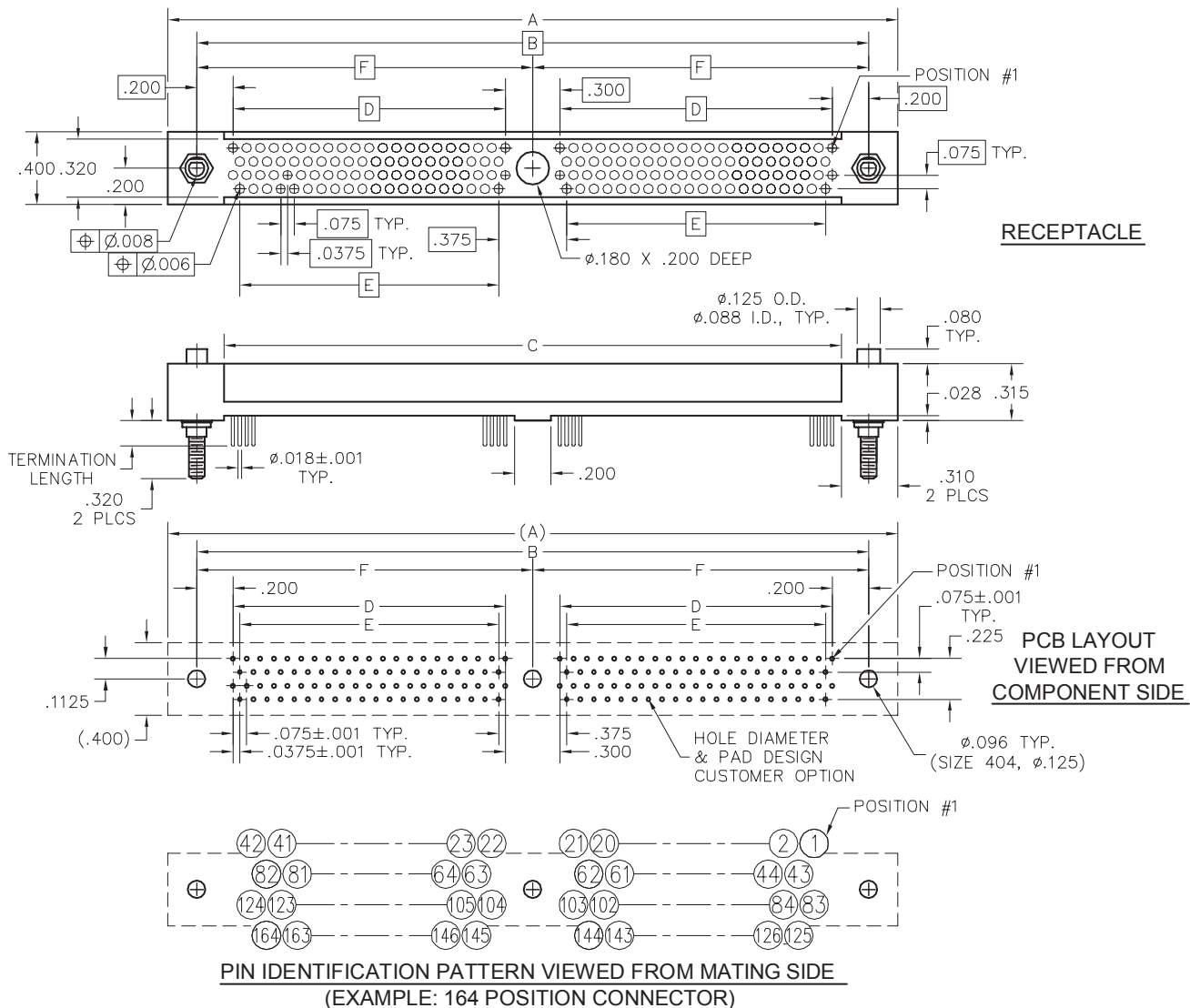
 RM412 — Four-row, straight plug
 RM452 — Four-row, right-angle plug
 RM412 — Four-row, I/O plug

Terminations




RM – Four-Row, Straight, Board-Mount Receptacle

Plastic ▪ 4-Row ▪ 86-404 Contacts



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

NOTES:

* = Single section, no center mounting hole

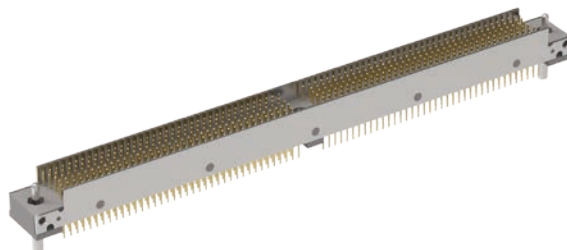
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Six-Row, Straight,
Board-Mount Plug**
Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


**6
Row**
Sample Part Number Format: RM612-448-522-9501

SERIES

 0.075" Plastic
 Rectangular
 Connector
 (Plug)

ROWS

 6 – 6-Row
 (448 or 604
 contacts)

STYLE

 1 – Plug,
 straight with
 mounting
 ears

BODY MATERIAL

 2 – Polyphenylene
 sulfide (PPS)

SIZE

 448 – 448 contacts
 604 – 604 contacts

PLATING

 1 – Gold
 2 – Pre-tinned,
 SnPb alloy ‡
 3 – Pre-tinned,
 SAC305 alloy

POLARIZATION

 00 – None
 XX – See page 141 for codes

TERMINATION

 51 – Plated thru-hole, 0.109" x 0.018" Ø
 52 – Plated thru-hole, 0.140" x 0.018" Ø
 53 – Plated thru-hole, 0.172" x 0.018" Ø
 54 – Plated thru-hole, 0.250" x 0.018" Ø

HARDWARE

 0256 – None
 84 – Fixed jackset, reversed, #2-56 x 0.320"
 90 – Guide pins, full round, #2-56 x 0.320"
 92 – Hex turning jackset, 0.200"
 93 – Fixed jackset, #2-56 x 0.247"
 94 – Fixed jackset, #2-56 x 0.320"
 95 – Guide pins, polarized, #2-56 x 0.320" **
 9501-9536 – Guide pins, polarized,
 #2-56 x 0.320"
 99 – Guide pins, universal, #2-56 x 0.320"

Notes:

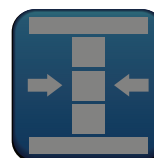
‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

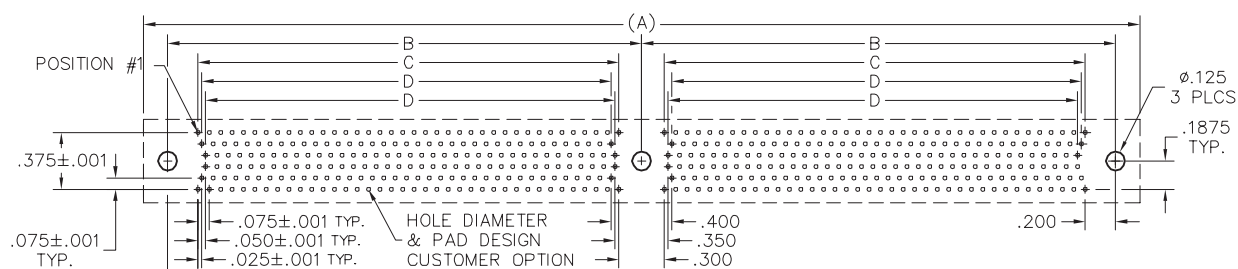
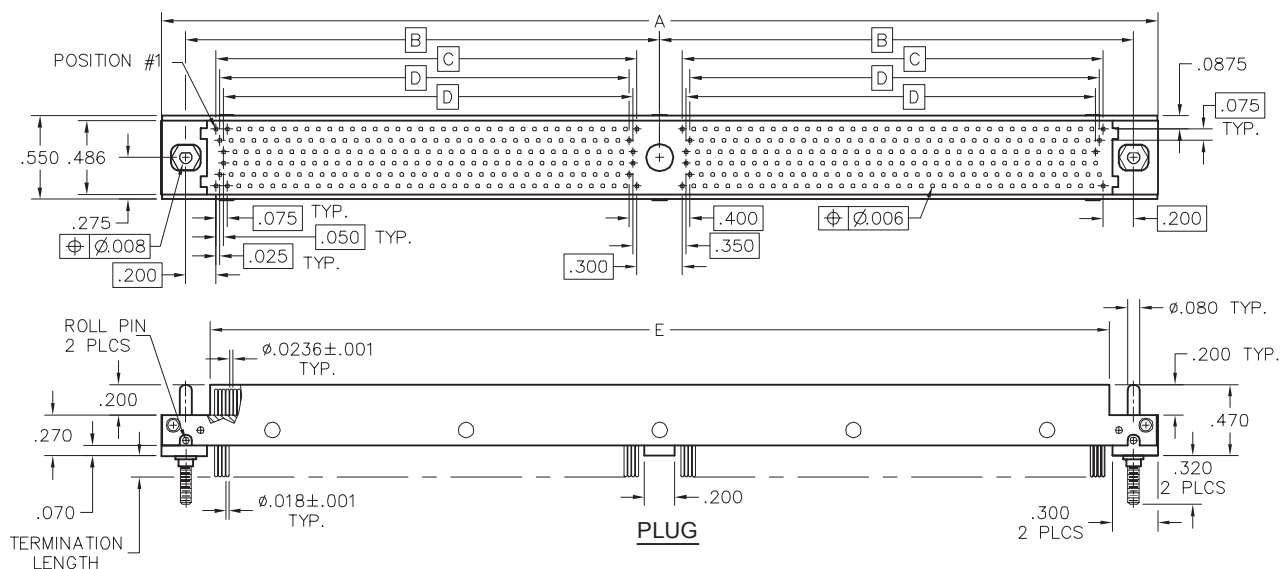
Mates with

 RM622 — Six-row, straight receptacle
 RM662 — Six-row, right-angle receptacle
 RM622 — Six-row, I/O receptacle

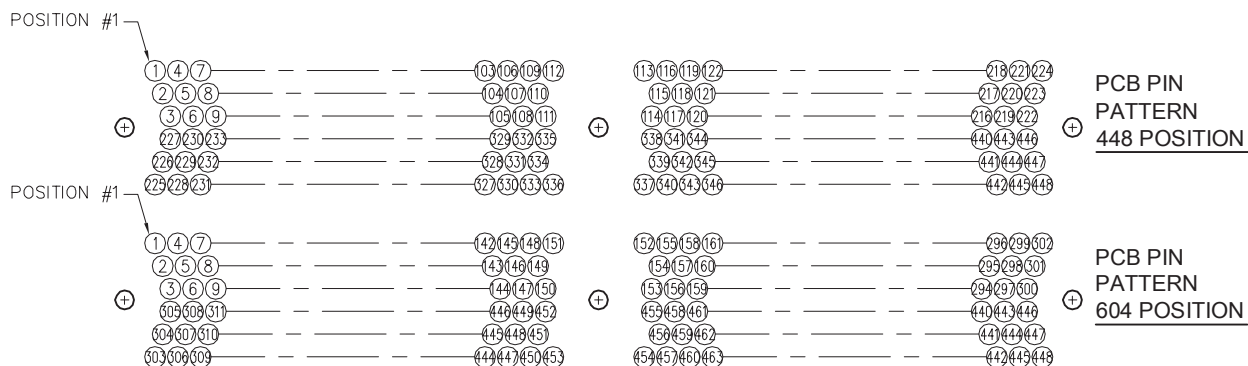
Terminations


RM – Six-Row, Straight, Board-Mount Plug

Plastic ▪ 6-Row ▪ 448 & 604 Contacts



PCB LAYOUT VIEWED FROM COMPONENT SIDE

PCB PIN
PATTERN
448 POSITIONPCB PIN
PATTERN
604 POSITION

DIMENSIONS					
SIZE	A	B	C	D	E
448	6.570	3.125	2.775	2.700	5.930
604	8.520	4.100	3.750	3.675	7.880

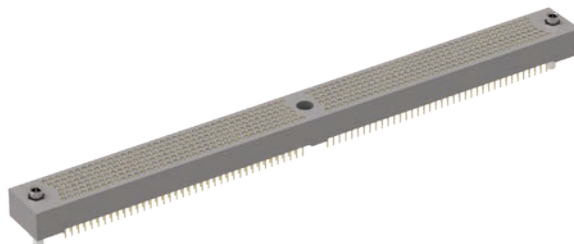
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Six-Row, Straight,
Board-Mount Receptacle**
Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


**6
Row**
Sample Part Number Format: RM622-448-822-9601

SERIES
 0.075" Plastic
 Rectangular
 Connector
 (Receptacle)

ROWS
 6 – 6-Row
 (448 & 604
 contacts)

STYLE
 2 – Receptacle,
 straight with
 mounting
 ears

BODY MATERIAL
 2 – Polyphenylene
 sulfide (PPS)

SIZE
 448 – 448 contacts
 604 – 604 contacts

PLATING
 1 – Gold
 2 – Pre-tinned,
 SnPb alloy ‡
 3 – Pre-tinned,
 SAC305 alloy

POLARIZATION
 00 – None
 XX – See page 141 for codes

TERMINATION

 75 – Plated thru-hole, 0.250" x 0.018" Ø
 81 – Plated thru-hole, 0.109" x 0.018" Ø
 82 – Plated thru-hole, 0.140" x 0.018" Ø
 83 – Plated thru-hole, 0.172" x 0.018" Ø
 87 – Press-fit, 0.188"
 (board 0.093"–0.125" thick)
 88 – Press-fit, 0.308"
 (board 0.156"–0.200" thick)

HARDWARE

 0256 – None
 91 – Guide sockets, full round, #2-56 x 0.247"
 92 – Hex turning jackset, 0.200"
 93 – Fixed jackset, #2-56 x 0.247"
 96 – Guide sockets, polarized, #2-56 x 0.320" **
 9601-9636 – Guide sockets, polarized, #2-56 x 0.320"
 97 – Guide sockets, polarized, #2-56 x 0.247" **
 9701-9736 – Guide sockets, polarized, #2-56 x 0.247"
 98 – Guide sockets, universal, #2-56 x 0.247"

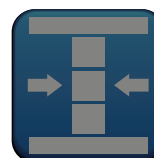
Notes:

- ‡ Not RoHS-compliant
 * Plated thru-hole is not available with flex circuit termination.
 ** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

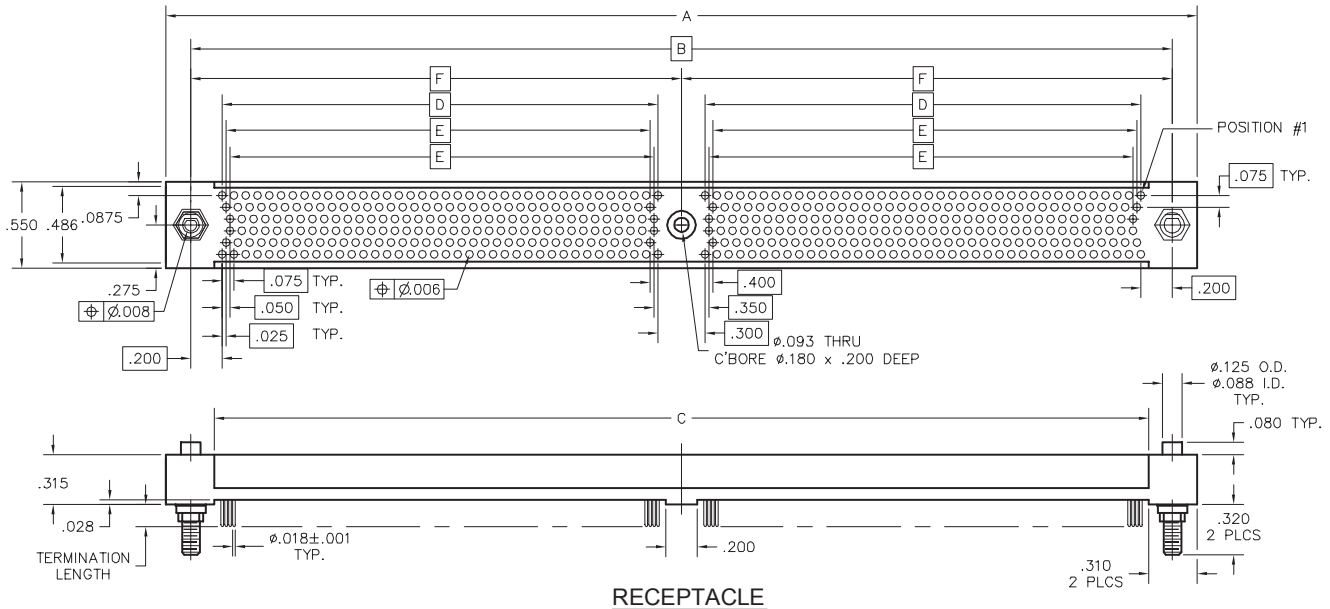
 RM612 — Six-row, straight plug
 RM652 — Six-row, right-angle plug
 RM612 — Six-row, I/O plug

Terminations


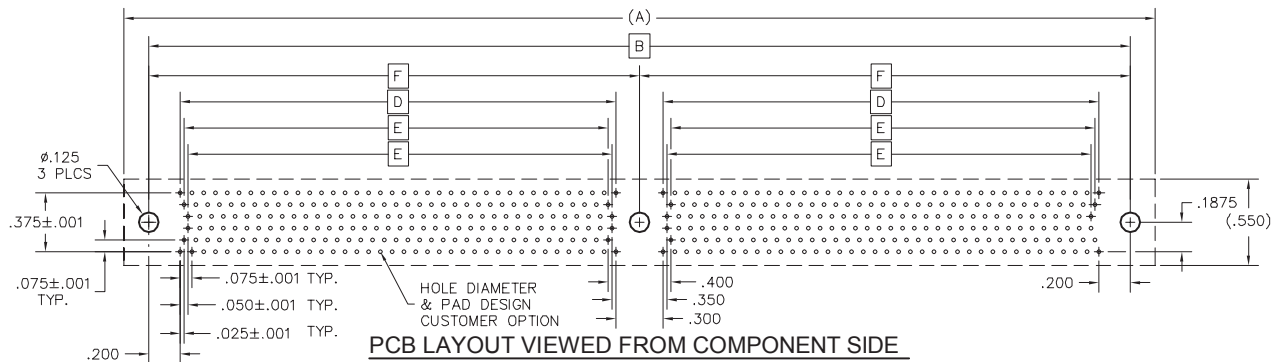


RM – Six-Row, Straight, Board-Mount Receptacle

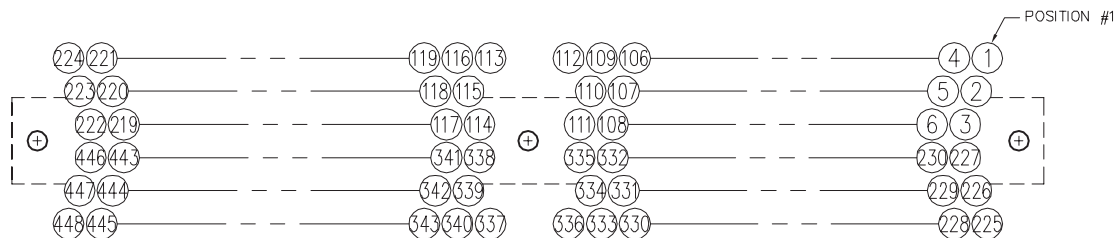
Plastic ▪ 6-Row ▪ 448 & 604 Contacts



RECEPTACLE



PCB LAYOUT VIEWED FROM COMPONENT SIDE



PIN IDENTIFICATION PATTERN
VIEW FROM MATING SIDE
(EXAMPLE: 448 POSITION CONNECTOR)

DIMENSIONS						
SIZE	A	B	C	D	E	F
448	6.570	6.250	5.950	2.775	2.700	3.125
604	8.520	8.200	7.900	3.750	3.675	4.100

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



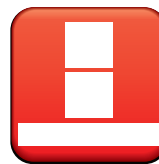
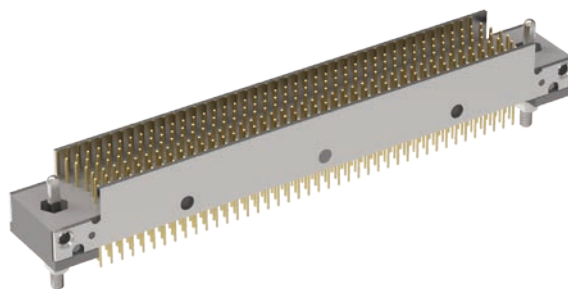
R Series

 High-Density
 0.075"
 (1.905mm)

RM – Six-Row, Straight, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


 6
Row

Sample Part Number Format: RM632-252-522-9501

RM
SERIES
 0.075" Plastic Rectangular Connector (Plug)

6
ROWS
 6 – 6-Row (162-402 contacts)

3
STYLE
 3 – Plug, straight without mounting ears

2
BODY MATERIAL
 2 – Polyphenylene sulfide (PPS)

252
SIZE
 162 – 162 contacts
 204 – 204 contacts
 252 – 252 contacts
 300 – 300 contacts
 360 – 360 contacts
 402 – 402 contacts

522
PLATING
 1 – Gold
 2 – Pre-tinned, SnPb alloy ‡
 3 – Pre-tinned, SAC305 alloy

9501
POLARIZATION
 00 – None
 XX – See page 141 for codes

TERMINATION

 51 – Plated thru-hole, 0.109" x 0.018" Ø
 52 – Plated thru-hole, 0.140" x 0.018" Ø
 53 – Plated thru-hole, 0.172" x 0.018" Ø
 54 – Plated thru-hole, 0.250" x 0.018" Ø

HARDWARE

 0256 – None
 84 – Fixed jackset, reversed, #2-56 x 0.320"
 90 – Guide pins, full round, #2-56 x 0.320"
 92 – Hex turning jackset, 0.200"
 93 – Fixed jackset, #2-56 x 0.247"
 94 – Fixed jackset, #2-56 x 0.320"
 95 – Guide pins, polarized, #2-56 x 0.320" **
 9501-9536 – Guide pins, polarized, #2-56 x 0.320"
 99 – Guide pins, universal, #2-56 x 0.320"

Notes:

‡ Not RoHS-compliant

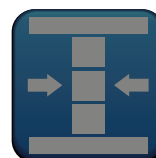
** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

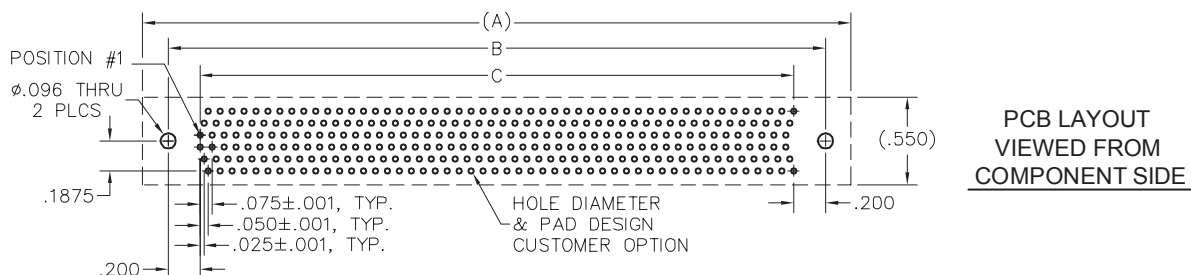
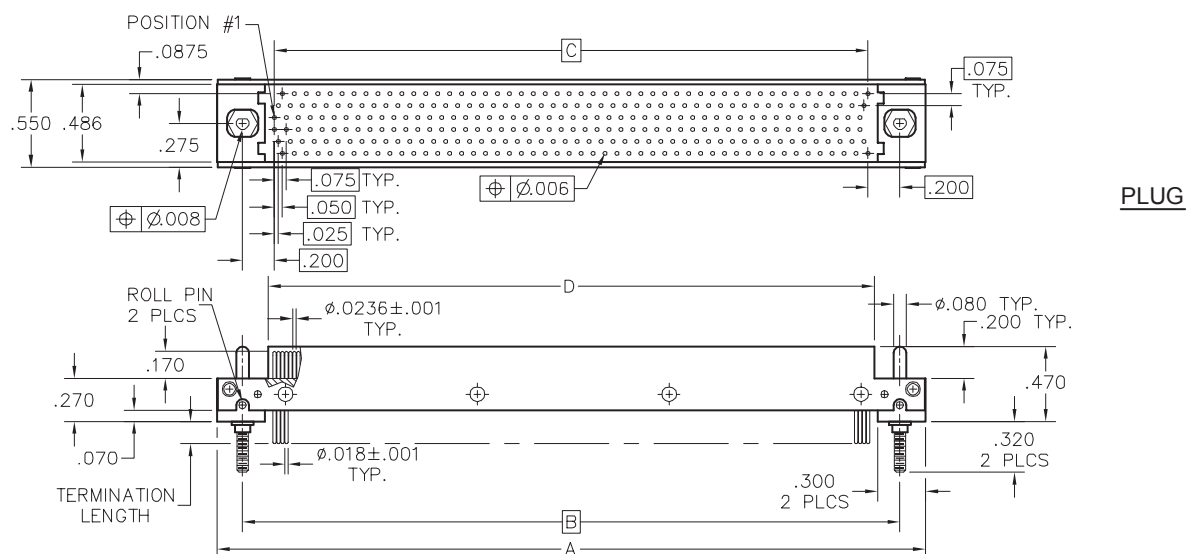
 RM622 — Six-row, straight receptacle
 RM662 — Six-row, right-angle receptacle
 RM622 — Six-row, I/O receptacle

Terminations



RM – Six-Row, Straight, Board-Mount Plug

Plastic ▪ 6-Row ▪ 162-402 Contacts



PIN IDENTIFICATION PATTERN
VIEWED FROM MATING SIDE
(EXAMPLE: 300 POSITION CONNECTOR)

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

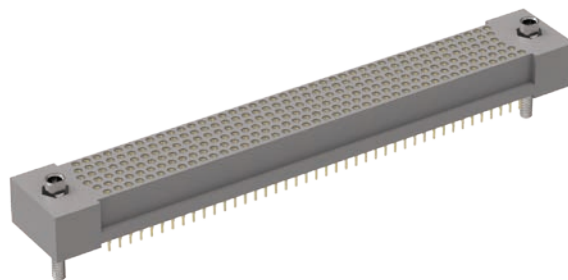
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.


R Series

 High-Density
 0.075"
 (1.905mm)

**RM – Six-Row, Straight,
Board-Mount Receptacle**
Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.


**6
Row**
Sample Part Number Format: RM642-252-812-9601

SERIES
 0.075" Plastic
 Rectangular
 Connector
 (Receptacle)

ROWS
 6 – 6-Row
 (162-402
 contacts)

STYLE
 4 – Receptacle,
 straight
 without
 mounting
 ears

BODY MATERIAL
 2 – Polyphenylene
 sulfide (PPS)

SIZE
 162 – 162 contacts
 204 – 204 contacts
 252 – 252 contacts
 300 – 300 contacts
 360 – 360 contacts
 402 – 402 contacts

PLATING
 1 – Gold
 2 – Pre-tinned,
 SnPb alloy ‡
 3 – Pre-tinned,
 SAC305 alloy

POLARIZATION
 00 – None
 XX – See page 141 for codes

TERMINATION

 75 – Plated thru-hole, 0.250" x 0.018" Ø
 81 – Plated thru-hole, 0.109" x 0.018" Ø
 82 – Plated thru-hole, 0.140" x 0.018" Ø
 83 – Plated thru-hole, 0.172" x 0.018" Ø
 87 – Press-fit, 0.188"
 (board 0.093"–0.125" thick)
 88 – Press-fit, 0.308"
 (board 0.156"–0.200" thick)

HARDWARE

 0256 – None
 84 – Fixed jackset, reversed, #2-56 x 0.320"
 91 – Guide sockets, full round, #2-56 x 0.247"
 92 – Hex turning jackset, 0.200"
 93 – Fixed jackset, #2-56 x 0.247"
 94 – Fixed jackset, #2-56 x 0.320"
 96 – Guide sockets, polarized, #2-56 x 0.320" **
 9601-9636 – Guide sockets, polarized,
 #2-56 x 0.320"
 97 – Guide sockets, polarized, #2-56 x 0.247" **
 9701-9736 – Guide sockets, polarized,
 #2-56 x 0.247"
 98 – Guide sockets, universal, #2-56 x 0.247"

Notes:

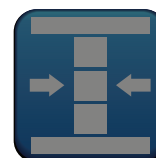
‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

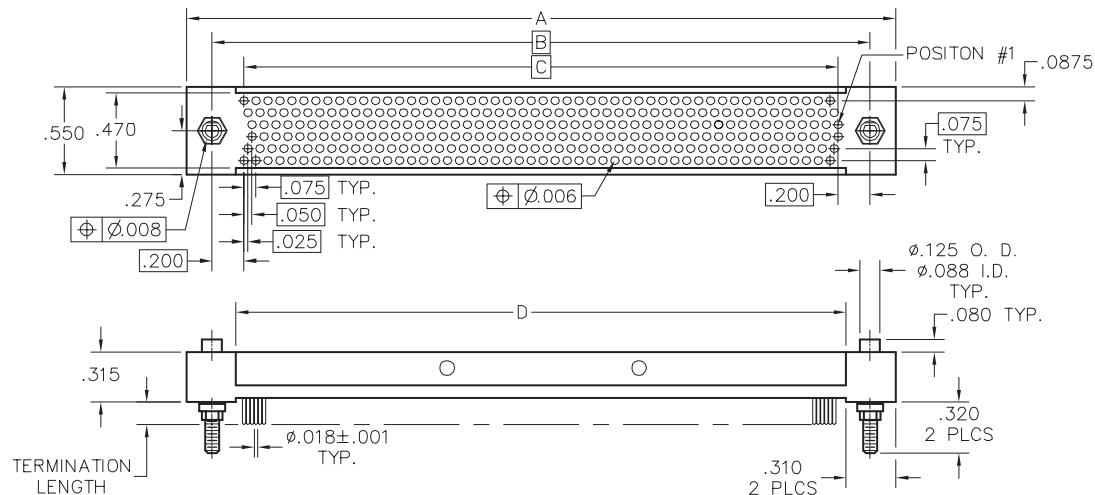
 RM612 — Six-row, straight plug
 RM652 — Six-row, right-angle plug
 RM612 — Six-row, I/O plug

Terminations


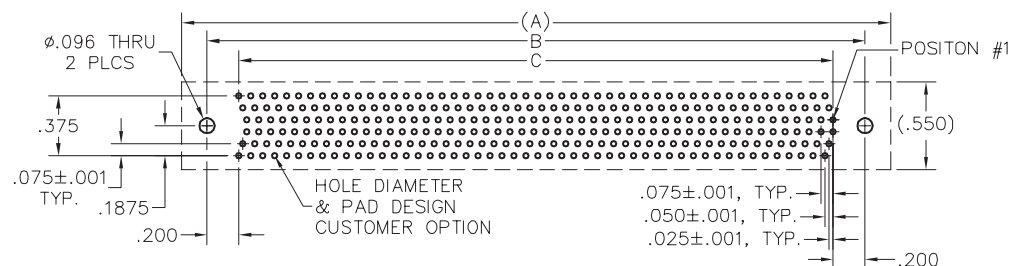


RM – Six-Row, Straight, Board-Mount Receptacle

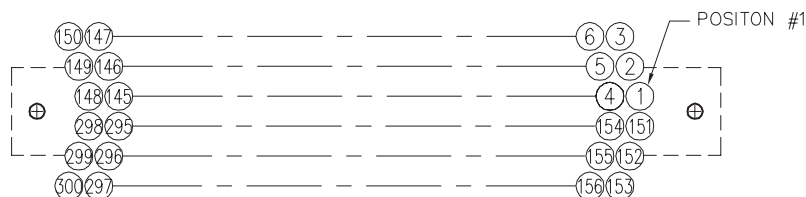
Plastic ▪ 6-Row ▪ 162-402 Contacts



RECEPTACLE



PCB LAYOUT
VIEWED FROM
COMPONENT SIDE



PIN IDENTIFICATION PATTERN
VIEWED FROM MATING SIDE
(EXAMPLE: 300 POSITION CONNECTOR)

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



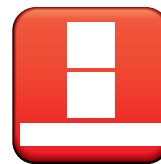
RC Series

 Stackable
 0.075"
 (1.905mm)

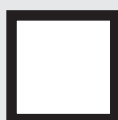
RC4 – Four-Row, Straight, Stackable, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



Sample Part Number Format: RC422-100-201-3900


SERIES
 0.075" Plastic
 Press-Fit,
 Stackable
 Connector
 (Receptacle)

BODY STYLE
 422 – 4-row
 receptacle
 442 – 4-row,
 low-profile
 receptacle
 (requires 3XX
 Termination)

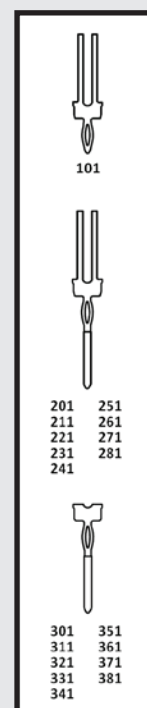
SIZE
 028 – 28 contacts
 052 – 52 contacts
 076 – 76 contacts
 100 – 100 contacts
 128 – 128 contacts
 152 – 152 contacts
 200 – 200 contacts
 252 – 252 contacts
 300 – 300 contacts

CONTACT
 10 – 0.095" Long
 20 – 0.270" Long
 21 – 0.300" Long
 22 – 0.400" Long
 23 – 0.500" Long
 24 – 0.700" Long
 25 – 0.800" Long
 26 – 0.900" Long
 27 – 0.600" Long
 28 – 1.000" Long
 30 – 0.270" Long
 31 – 0.300" Long
 32 – 0.400" Long
 33 – 0.500" Long
 34 – 0.700" Long
 35 – 0.800" Long
 36 – 0.900" Long
 37 – 0.600" Long
 38 – 1.000" Long

PLATING
 1 – 50 μ Au

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

FIXED JACKSOCKET
 (to mate with RC cable, only)

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


Notes:

 Cap removal tool:
 AirBorn part number CDG10056

 Contact removal tool:
 AirBorn part number CDG10057

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

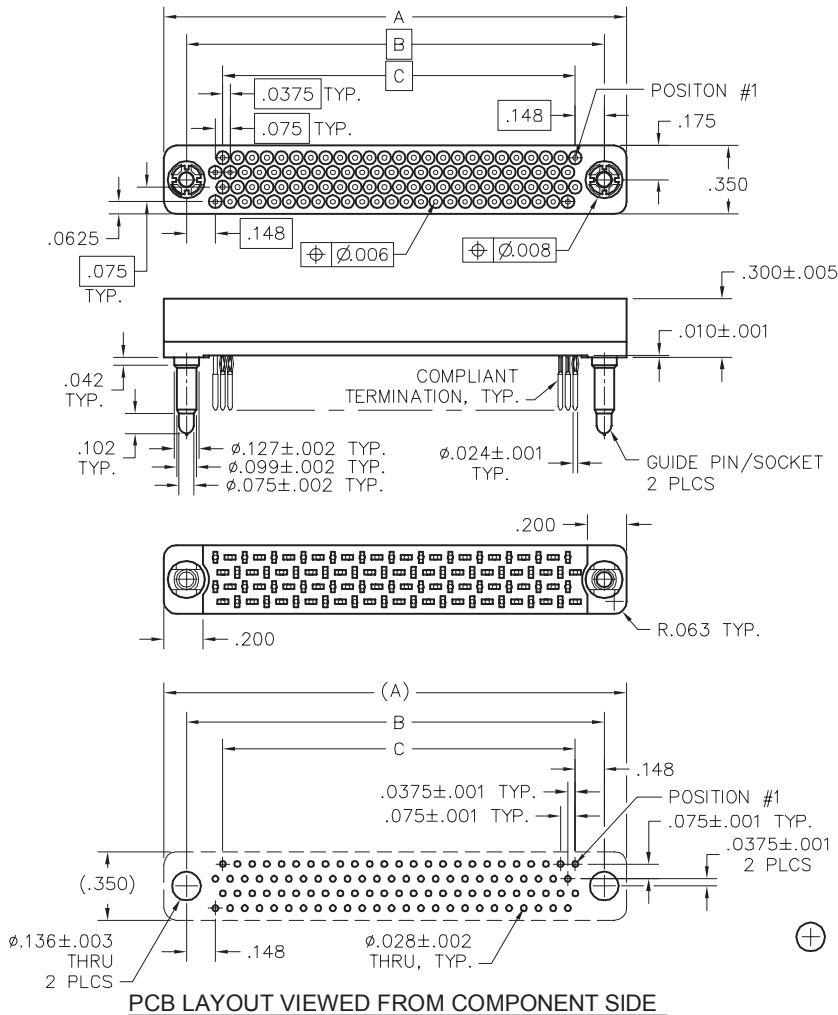
 RC422 — Four-row, press-fit receptacle
 RC4C2 — Four-row, press-fit receptacle
 RC4B2 — Four-row, press-fit receptacle
 RC442 — Four-row, press-fit receptacle

Terminations

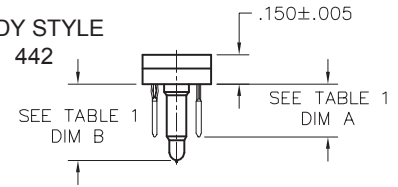


RC4 – Four-Row, Straight, Stackable, Board-Mount Receptacle

Plastic ▪ 4-Row ▪ 28-300 Contacts

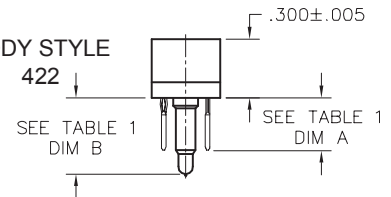


BODY STYLE

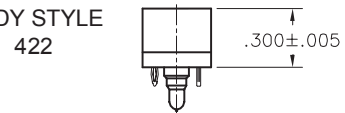


OPTIONAL INSULATOR FOR TOP CONNECTOR TERMINATION
OPTIONS: 301, 311, 321, 331, 341, 351, 361, 371 AND 381
(W/CIRCUIT TEST POINT)

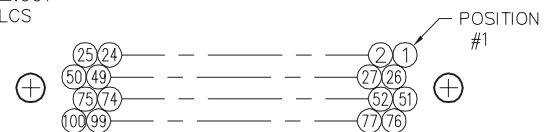
BODY STYLE



BODY STYLE



CONTACT/HARDWARE
OPTION 101
(TERMINATES CIRCUIT)



PIN IDENTIFICATION PATTERN
VIEWED FROM MATING SIDE
(EXAMPLE: 100 POSITION CONNECTOR)

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

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



RC Series

 Stackable
 0.075"
 (1.905mm)

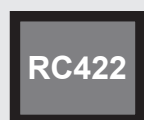
RC422 - Four-Row, Straight, Stackable, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

A low profile, high-density press-fit connector. Uses a patented receptacle/compliant/male stacking contact system in board-to-board stacking applications..



Sample Part Number Format: RC422-052-211-4000



SERIES
Stackable Compliant
Full-Profile 4 Rows
0.075" Spacing



CONFIGURATION
028 - 4 Rows/7 Columns
052 - 4 Rows/13 Columns
076 - 4 Rows/19 Columns
100 - 4 Rows/25 Columns
128 - 4 Rows/32 Columns
152 - 4 Rows/38 Columns
200 - 4 Rows/50 Columns
252 - 4 Rows/63 Columns
300 - 4 Rows/75 Columns



CONTACT
10 - 0.095" Long
20 - 0.270" Long
21 - 0.300" Long
22 - 0.400" Long
23 - 0.500" Long
24 - 0.700" Long
25 - 0.800" Long
26 - 0.900" Long
27 - 0.600" Long
28 - 1.000" Long
30 - 0.270" Long
31 - 0.300" Long
32 - 0.400" Long
33 - 0.500" Long
34 - 0.700" Long
35 - 0.800" Long
36 - 0.900" Long
37 - 0.600" Long
38 - 1.000" Long



PLATING
1 - 50 μ " Au



TYPE
00 - None
FT - Receptacle thread
MT - Male thread
(#39 hardware, only)



VARIATION
Blank - None
XXX - Consult factory

HARDWARE

30 - 0.195" Long (use with #10 contact)
39 - 0.370" Long (use with #20 contact)
40 - 0.400" Long (use with #21 contact)
41 - 0.500" Long (use with #22 contact)
42 - 0.600" Long (use with #23 contact)
43 - 0.800" Long (use with #24 contact)
44 - 0.900" Long (use with #25 contact)
45 - 1.000" Long (use with #26 contact)
46 - 0.700" Long (use with #27 contact)
47 - 1.100" Long (use with #28 contact)



101



201 251
211 261
221 271
231 281
241



301 351
311 361
321 371
331 381
341

Notes:

Mated Height: The connector body height is 0.300" and, when used with the -20 or -30 (0.270") contact, the mounting is flush (board-bottom-mounted to connector top). This board-bottom to connector-top spacing can be modified based on the contact selected by approximately the difference in pin length (see opposite page).

See page 146 for application notes.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

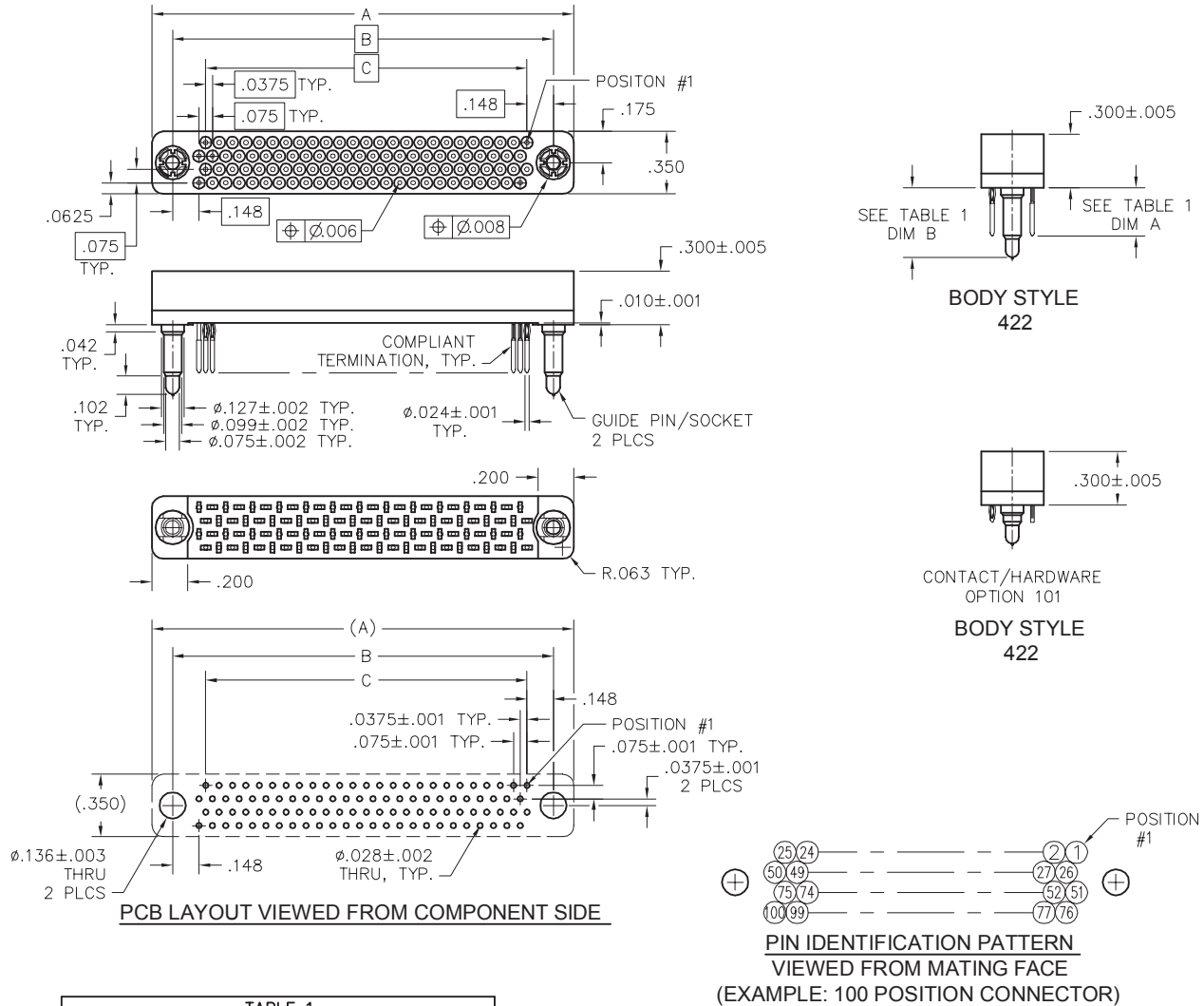
RC4C2 — Four-row, top-of-stack plug
RC422 — Four-row, straight receptacle
RC4B2 — Four-row, stackable receptacle

Terminations



RC422 - Four-Row, Straight, Stackable, Board-Mount Receptacle

Plastic ▪ 4-Row ▪ 28-300 Contacts



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



RC Series

 Stackable
 0.075"
 (1.905mm)

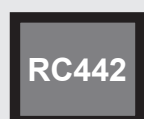
RC442 - Four-Row, Straight, Stackable, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

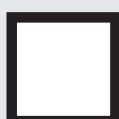
A low profile, high-density press-fit connector. Uses a patented receptacle/compliant/male stacking contact system in board-to-board stacking applications.



Sample Part Number Format: RC442-052-311-4000



SERIES
 Stackable Compliant
 Low-Profile 4 Rows
 0.075" Spacing



CONFIGURATION
 028 – 4 Rows/7 Columns
 052 – 4 Rows/13 Columns
 076 – 4 Rows/19 Columns
 100 – 4 Rows/25 Columns
 128 – 4 Rows/32 Columns
 152 – 4 Rows/38 Columns
 200 – 4 Rows/50 Columns
 252 – 4 Rows/63 Columns
 300 – 4 Rows/75 Columns



CONTACT
 30 – 0.270" Long
 31 – 0.300" Long
 32 – 0.400" Long
 33 – 0.500" Long
 34 – 0.700" Long
 35 – 0.800" Long
 36 – 0.900" Long
 37 – 0.600" Long
 38 – 1.000" Long



PLATING
 1 – 50 μ " Au



TYPE
 00 – None



VARIATION
 Blank – None
 XXX – Consult factory

HARDWARE

39 – 0.370" Long (use with #30 contact)
 40 – 0.400" Long (use with #31 contact)
 41 – 0.500" Long (use with #32 contact)
 42 – 0.600" Long (use with #33 contact)
 43 – 0.800" Long (use with #34 contact)
 44 – 0.900" Long (use with #35 contact)
 45 – 1.000" Long (use with #36 contact)
 46 – 0.700" Long (use with #37 contact)
 47 – 1.100" Long (use with #38 contact)

Notes:

Mated Height: The connector body height is 0.150" but the functional spacing (the bottom surface of the board, on which the connector is mounted, to the top of the connector below it) can be modified based on the contact/pin length selected (see opposite page).

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RC422 — Four-row, straight receptacle
 RC4B2 — Four-row, stackable receptacle

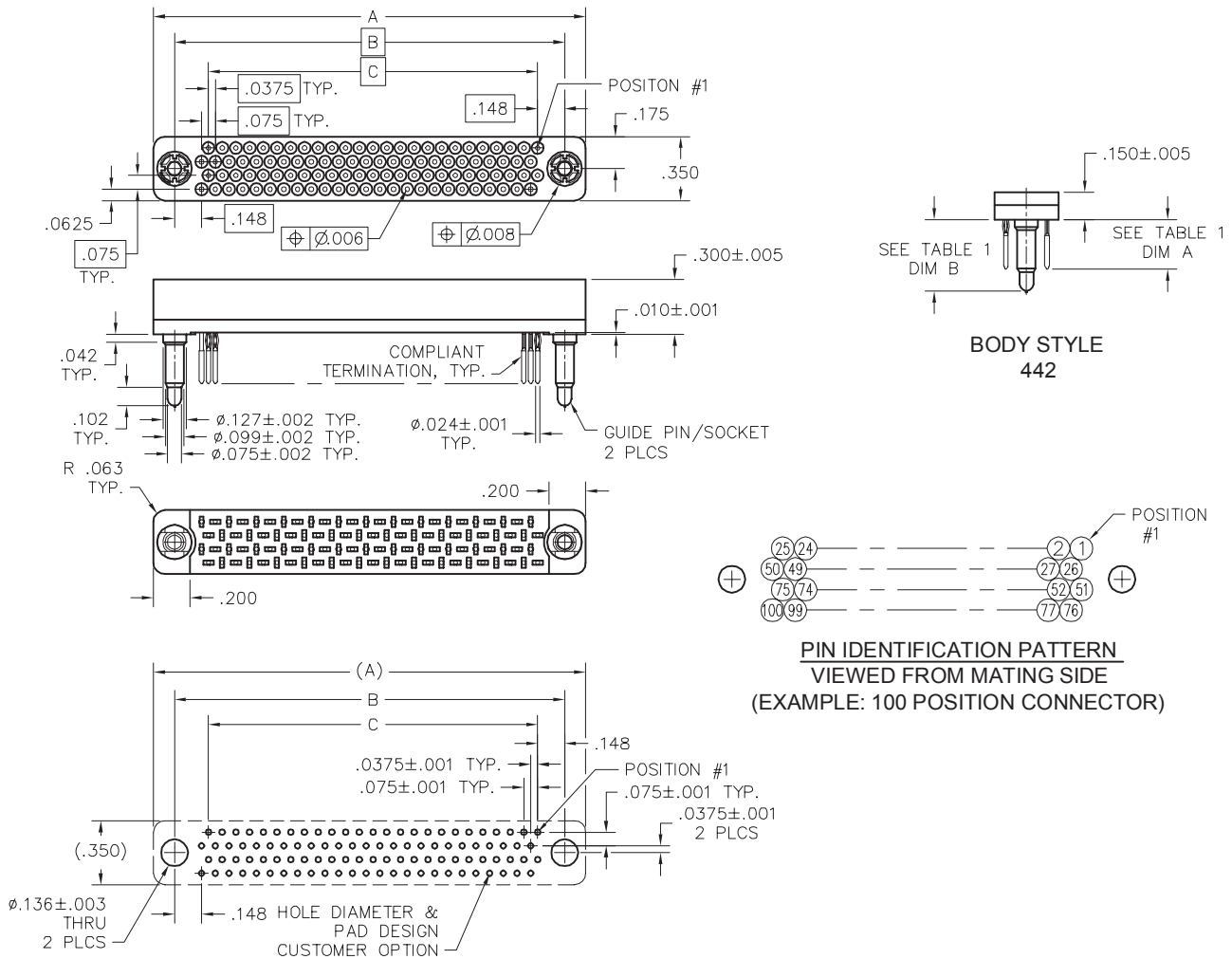
Terminations





RC442 - Four-Row, Straight, Stackable, Board-Mount Receptacle

Plastic ▪ 4-Row ▪ 28-300 Contacts

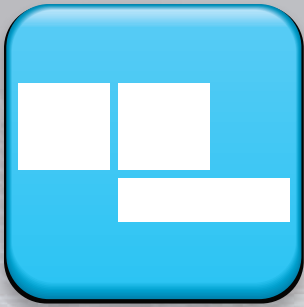


PCB LAYOUT VIEWED FROM COMPONENT SIDE

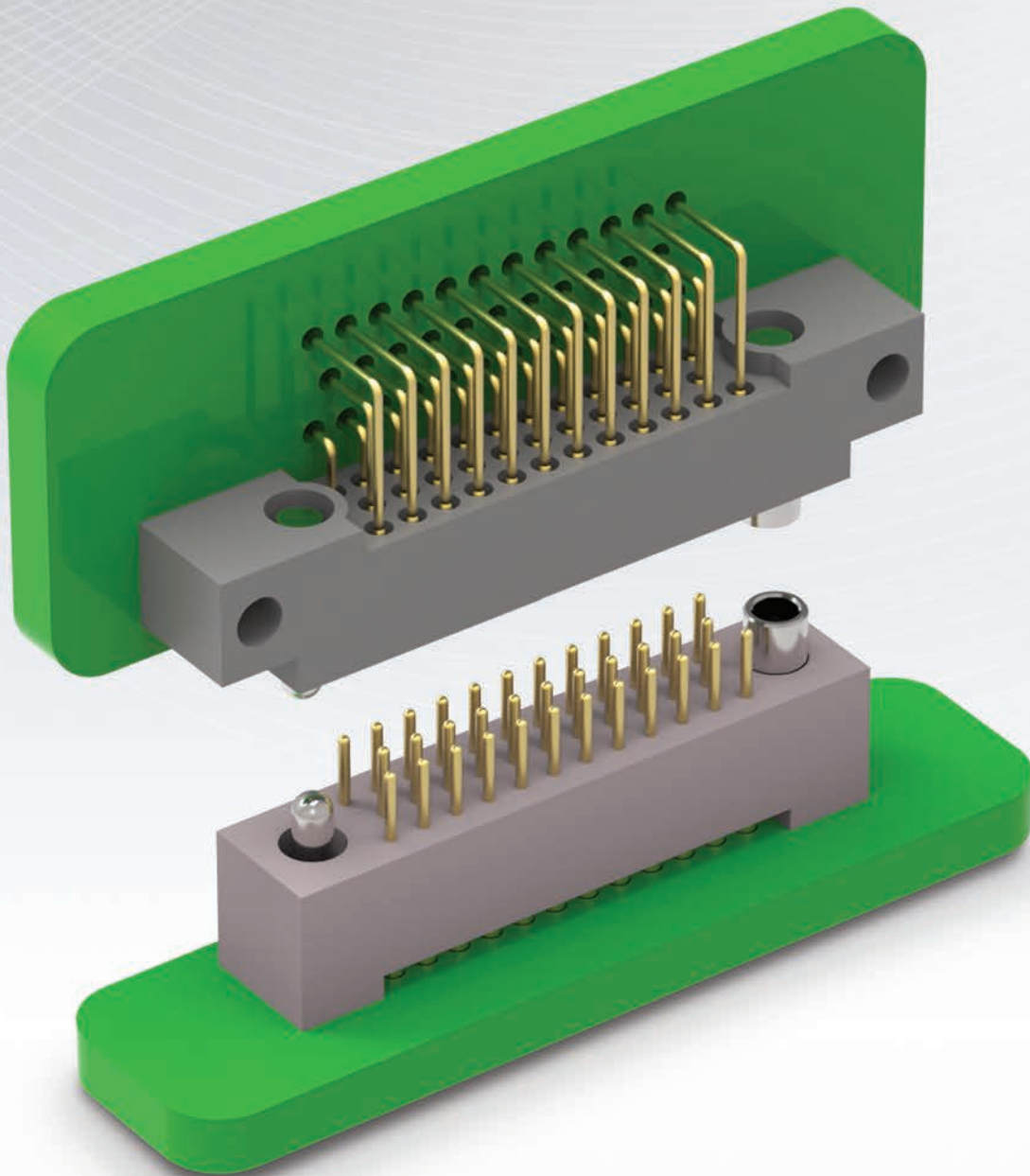
DIMENSIONS			
SIZE	A	B	C
28	1.014	.784	.450
52	1.464	1.234	.900
76	1.914	1.684	1.350
100	2.364	2.134	1.800
128	2.889	2.659	2.325
152	3.339	3.109	2.775
200	4.239	4.009	3.675
252	5.214	4.984	4.650
300	6.114	5.884	5.550

TABLE 1		
CONTACT TERMINATION	CONTACT	HARDWARE
	A	B
301	.270	.370
311	.300	.400
321	.400	.500
331	.500	.600
341	.700	.800
351	.800	.900
361	.900	1.000
371	.600	.700
381	1.000	1.100

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

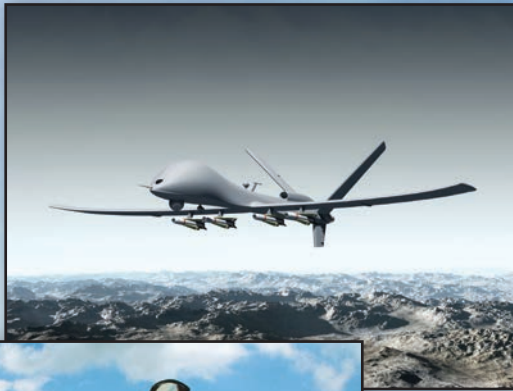


Board-Mount, Right-Angle Connectors



R-Series Connectors

0.075" (1.905 mm)



When designing around tight turns & maximizing limited board space in both axis is essential, such as with aviation applications, count on right-angle connectors to fit your design needs.

- 2, 3, 4 & 6-row options
- 10-604 contacts
- Available with or without mounting ears
- Plated thru-hole termination
- Threaded vertical posts in mounting holes
- Utilized with traditional FR-4 & rigid flexible circuits

Now you're **AirBorn Connected®**



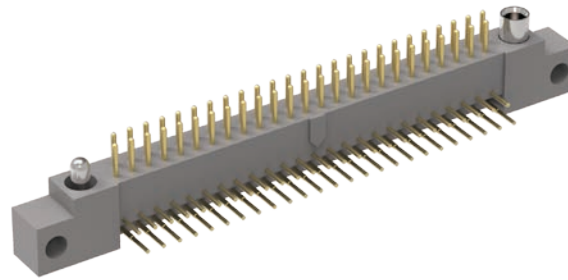
R Series

High-Density
0.075"
(1.905mm)

RM – Two-Row, Right-Angle, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



RIGHT ANGLE

Sample Part Number Format: RM252-100-312-5500

RM	2		2	-		-		-			
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 2 – 2-Row (10-100 contacts)	STYLE 5 – Plug, right-angle with mounting ears 7 – Plug, right-angle without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 010 – 10 contacts 020 – 20 contacts 030 – 30 contacts 040 – 40 contacts 050 – 50 contacts 060 – 60 contacts 070 – 70 contacts 080 – 80 contacts 090 – 90 contacts 100 – 100 contacts	PLATING 1 – Gold 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy	TERMINATION 31 – Plated thru-hole, 0.109" x 0.020" Ø 32 – Plated thru-hole, 0.140" x 0.020" Ø 33 – Plated thru-hole, 0.172" x 0.020" Ø 34 – Plated thru-hole, 0.109" x 0.016" Ø 35 – Plated thru-hole, 0.140" x 0.016" Ø 36 – Plated thru-hole, 0.172" x 0.016" Ø 37 – Plated thru-hole, 0.250" x 0.020" Ø	HARDWARE 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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	POLARIZATION 00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)	OPTIONS BN – Bond #1-72, small pattern hex nuts into mounting ears		

Notes:

‡ Not RoHS compliant

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

- RM222 & RM242 — Two-row, straight receptacle
- RM262 & RM282 — Two-row, right-angle receptacle
- RM222 — Two-row, I/O receptacle

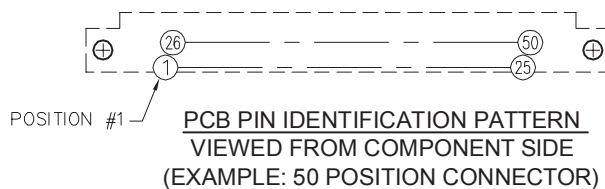
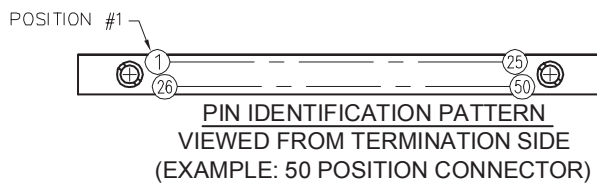
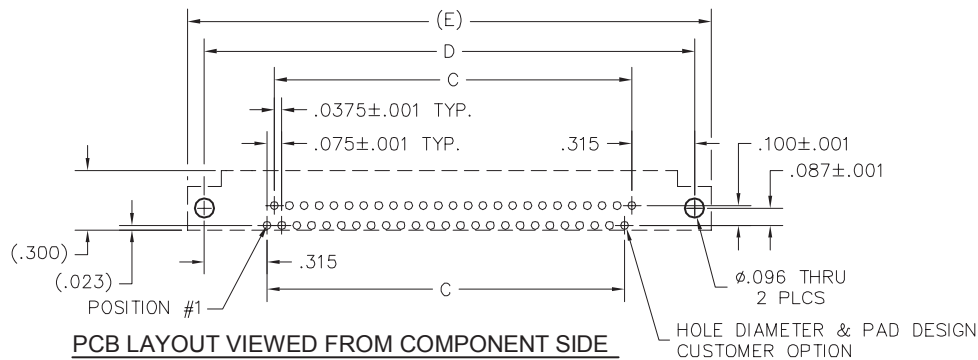
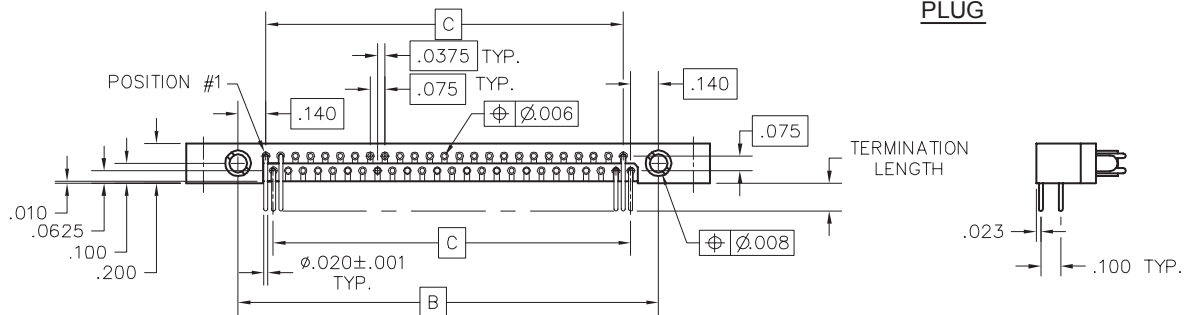
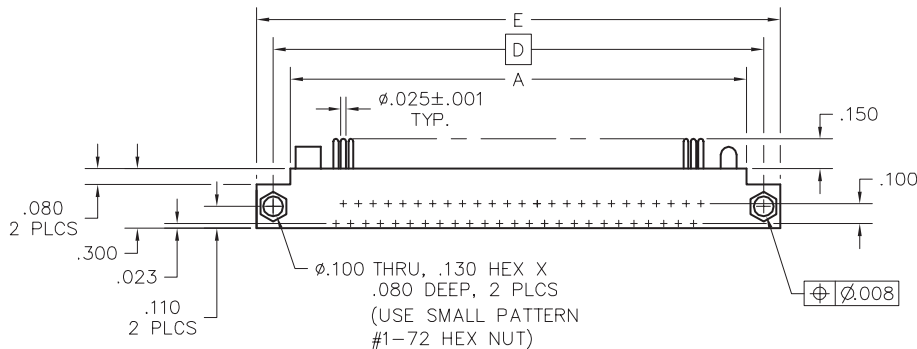
Terminations





RM – Two-Row, Right-Angle, Board-Mount Plug

Plastic ▪ 2-Row ▪ 10-100 Contacts



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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



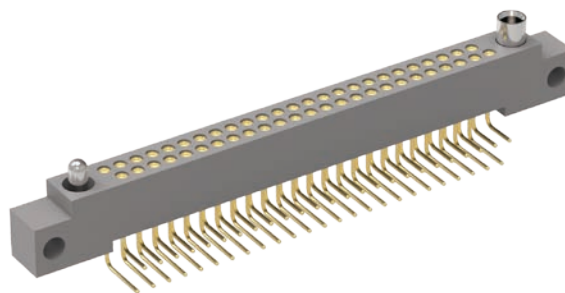
R Series

High-Density
0.075"
(1.905mm)

RM – Two-Row, Right-Angle, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



RIGHT ANGLE

Sample Part Number Format: RM262-020-442-5500-076

RM	2		2	-		-		-			
SERIES 0.075" Plastic Rectangular Connector (Receptacle)	ROWS 2 – 2-Row (10-100 contacts)	STYLE 6 – Receptacle, right-angle with mounting ears 8 – Receptacle, right-angle without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 010 – 10 contacts 020 – 20 contacts 030 – 30 contacts 040 – 40 contacts 050 – 50 contacts 060 – 60 contacts 070 – 70 contacts 080 – 80 contacts 090 – 90 contacts 100 – 100 contacts	PLATING 1 – Gold 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy	TERMINATION 44 – Plated thru-hole, 0.109" x 0.020" Ø 45 – Plated thru-hole, 0.140" x 0.020" Ø 46 – Plated thru-hole, 0.172" x 0.020" Ø 47 – Plated thru-hole, 0.250" x 0.020" Ø	HARDWARE 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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	POLARIZATION 00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)	OPTIONS 076 – PWB mounting holes, 0.100" Ø (cross-drilled)		

Notes:

‡ Not RoHS compliant

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

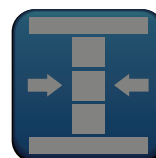
Mates with

RM212 & RM232 — Two-row, straight plug

RM252 & RM272 — Two-row, right-angle plug

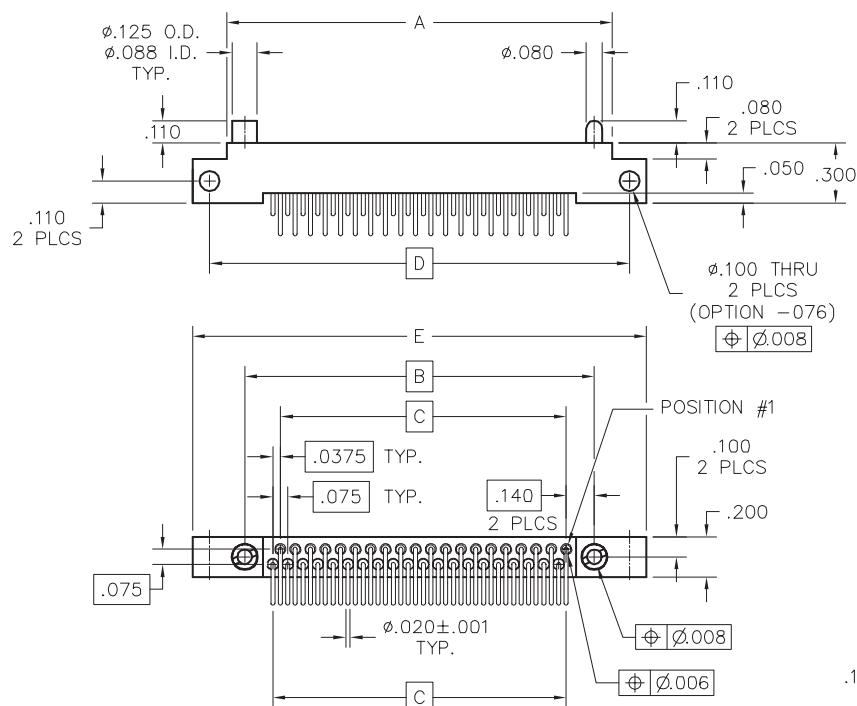
RA2 — Two-row, I/O plug

Terminations

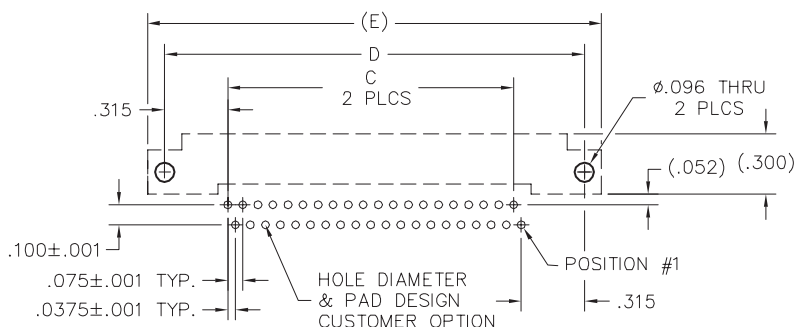
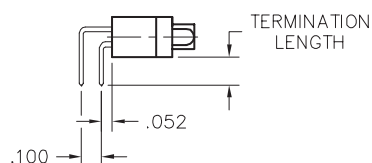


RM – Two-Row, Right-Angle, Board-Mount Receptacle

Plastic ▪ 2-Row ▪ 10-100 Contacts



RECEPTACLE

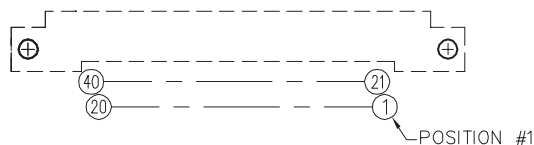


PCB LAYOUT VIEWED
FROM COMPONENT SIDE

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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 40 POSITION CONNECTOR)



PCB PIN IDENTIFICATION PATTERN
VIEWED FROM COMPONENT SIDE
(EXAMPLE: 40 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



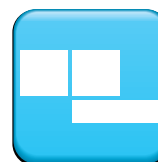
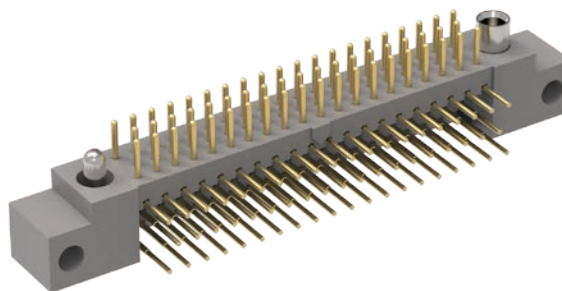
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, Right-Angle, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



3
Row

RIGHT
ANGLE

Sample Part Number Format: RM352-152-321-5500

RM	3		2	-		-		-			
SERIES	ROWS	STYLE	BODY MATERIAL	SIZE	PLATING	TERMINATION	HARDWARE	POLARIZA- TION	OPTIONS		
0.075" Plastic Rectangular Connector (Plug)	3 – 3-Row (11-206 contacts)	5 – Plug, right-angle with mounting ears 7 – Plug, right-angle without mounting ears	2 – Polyphenylene sulfide (PPS)	011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts 092 – 92 contacts 104 – 104 contacts 122 – 122 contacts 140 – 140 contacts 152 – 152 contacts 182 – 182 contacts 206 – 206 contacts	1 – Gold 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy	31 – Plated thru-hole, 0.109" x 0.020" Ø 32 – Plated thru-hole, 0.140" x 0.020" Ø 33 – Plated thru-hole, 0.172" x 0.020" Ø 34 – Plated thru-hole, 0.109" x 0.016" Ø 35 – Plated thru-hole, 0.140" x 0.016" Ø 36 – Plated thru-hole, 0.172" x 0.016" Ø 37 – Plated thru-hole, 0.250" x 0.020" Ø	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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)	BN – Bond #1-72, small pattern hex nuts into mounting ears		

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM322 & RM342 — Three-row, straight receptacle
RM362 & RM382 — Three-row, right-angle receptacle
RA3 — Three-row, I/O receptacle

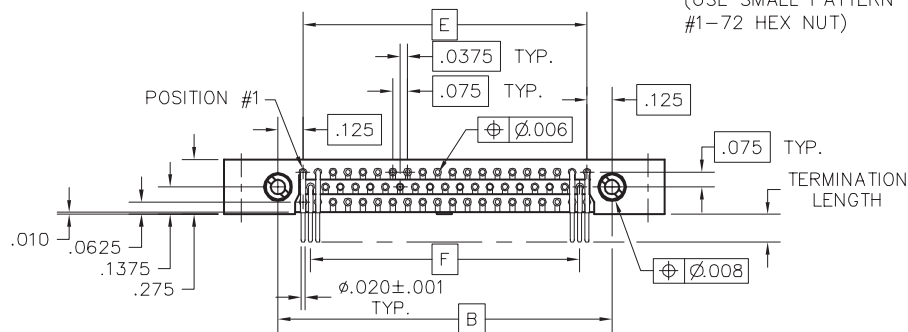
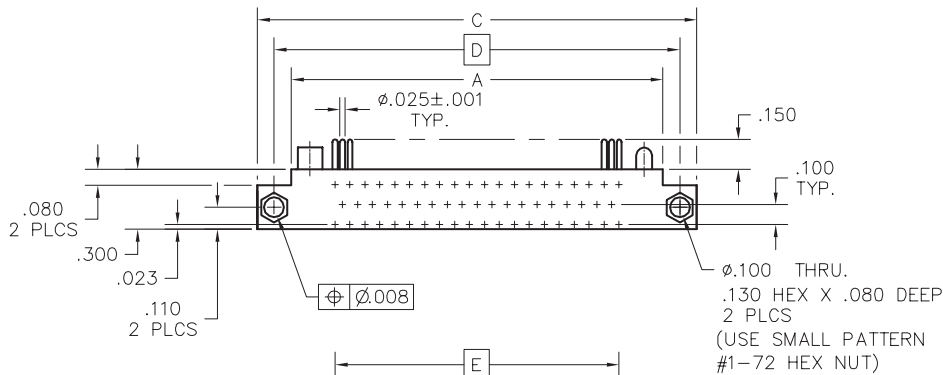
Terminations



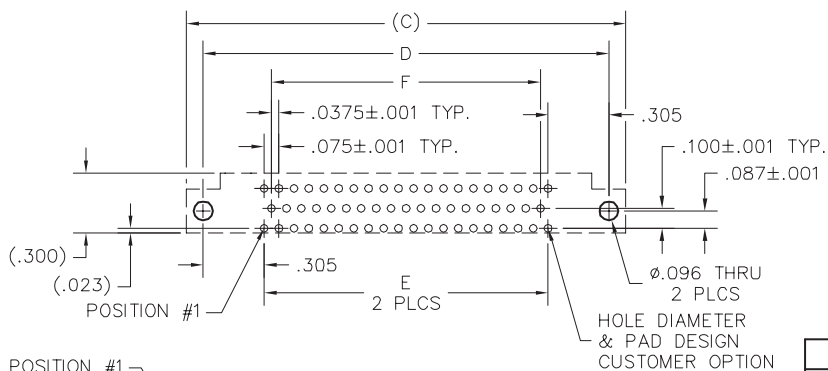
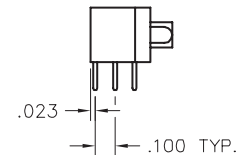


RM – Three-Row, Right-Angle, Board-Mount Plug

Plastic ▪ 3-Row ▪ 11-206 Contacts



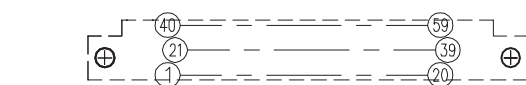
PLUG



PCB LAYOUT VIEWED FROM COMPONENT SIDE



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 59 POSITION CONNECTOR)



PCB IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 59 POSITION CONNECTOR)

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



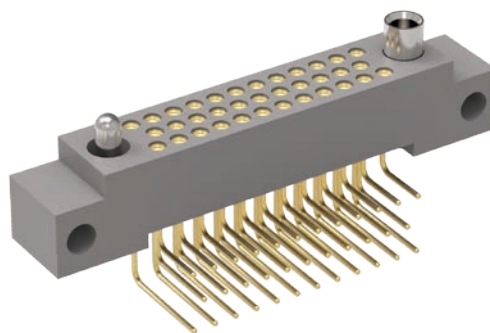
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, Right-Angle, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



3
Row

RIGHT
ANGLE

Sample Part Number Format: RM362-035-441-5500-076

RM	3		2	-		-		-			
SERIES 0.075" Plastic Rectangular Connector (Receptacle)	ROWS 3 – 3-Row (10-100 contacts)	STYLE 6 – Receptacle, right-angle with mounting ears 8 – Receptacle, right-angle without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts 092 – 92 contacts 104 – 104 contacts 122 – 122 contacts 140 – 140 contacts 152 – 152 contacts 182 – 182 contacts 206 – 206 contacts	PLATING 1 – Gold 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy	TERMINATION 44 – Plated thru-hole, 0.109" x 0.020" Ø 45 – Plated thru-hole, 0.140" x 0.020" Ø 46 – Plated thru-hole, 0.172" x 0.020" Ø 47 – Plated thru-hole, 0.250" x 0.020" Ø	POLARIZATION 00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)	HARDWARE 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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	OPTIONS 076 – PWB mounting holes, 0.100" Ø (cross-drilled)		

Notes:

‡ Not RoHS compliant

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

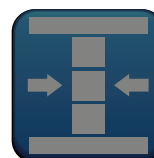
Mates with

RM312 & RM332 — Three-row, straight plug

RM352 & RM372 — Three-row, right-angle plug

RA3 — Three-row, I/O plug

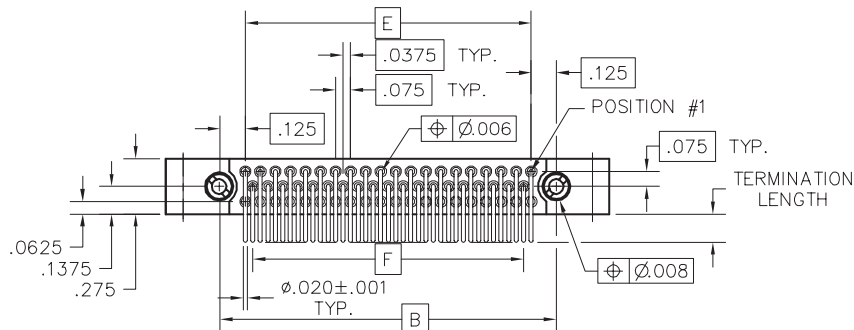
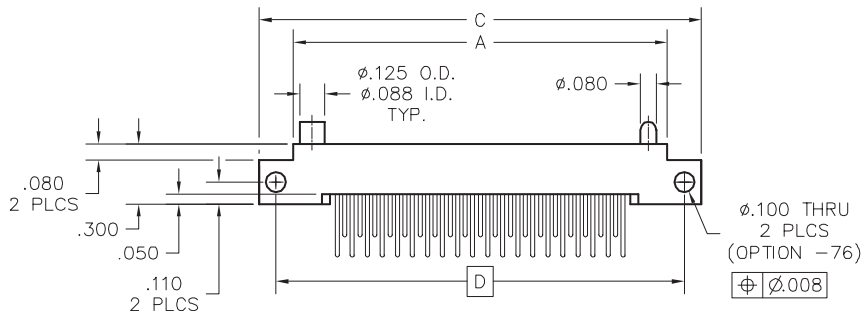
Terminations



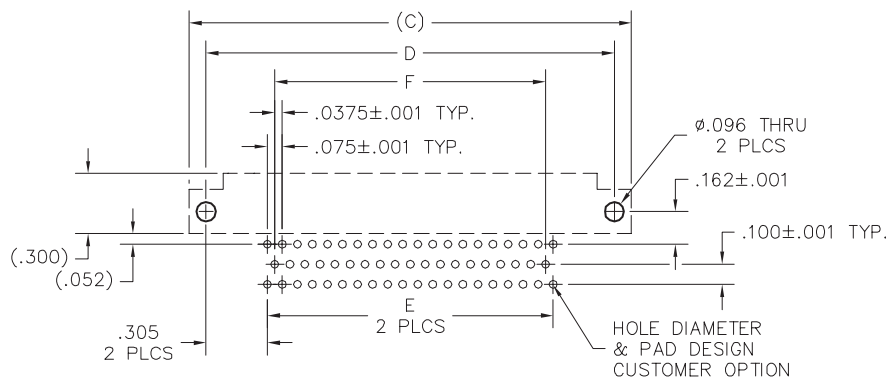
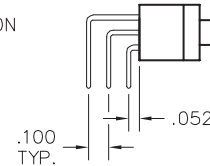


RM – Three-Row, Right-Angle, Board-Mount Receptacle

Plastic ▪ 3-Row ▪ 11-206 Contacts



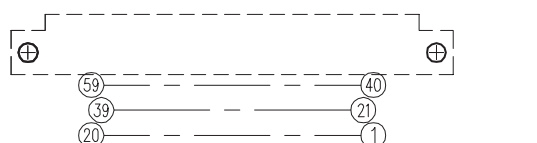
RECEPTACLE



PCB LAYOUT VIEWED FROM COMPONENT SIDE



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE



PCB PIN IDENTIFICATION PATTERN
VIEWED FROM COMPONENT SIDE
(EXAMPLE: 59 POSITION CONNECTOR)

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



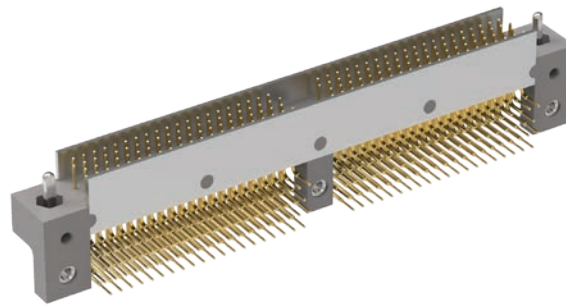
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, Right-Angle, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



4
Row

RIGHT ANGLE

Sample Part Number Format: RM452-164-312-9501



SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

4 – 4-Row (86-404 contacts)

STYLE

5 – Plug, right-angle with mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

086 – 86 contacts
110 – 110 contacts
164 – 164 contacts
196 – 196 contacts
204 – 204 contacts
220 – 220 contacts
250 – 250 contacts
276 – 276 contacts
300 – 300 contacts
404 – 404 contacts

PLATING

1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

POLARIZATION

00 – None
XX – See page 141 for codes

TERMINATION

31 – Plated thru-hole, 0.109" x 0.019" Ø
32 – Plated thru-hole, 0.140" x 0.019" Ø
33 – Plated thru-hole, 0.172" x 0.019" Ø
34 – Plated thru-hole, 0.250" x 0.019" Ø

HARDWARE

0256 – None
90 – Guide pins, full round
93 – Fixed jackset
95 – Guide pins, polarized*
9501-9536 – Guide pins, polarized
99 – Guide pins, universal

Notes:

‡ Not RoHS-compliant

* This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM422 — Four-row, straight receptacle
RM462 — Four-row, right-angle receptacle
RM422 — Four-row, I/O receptacle

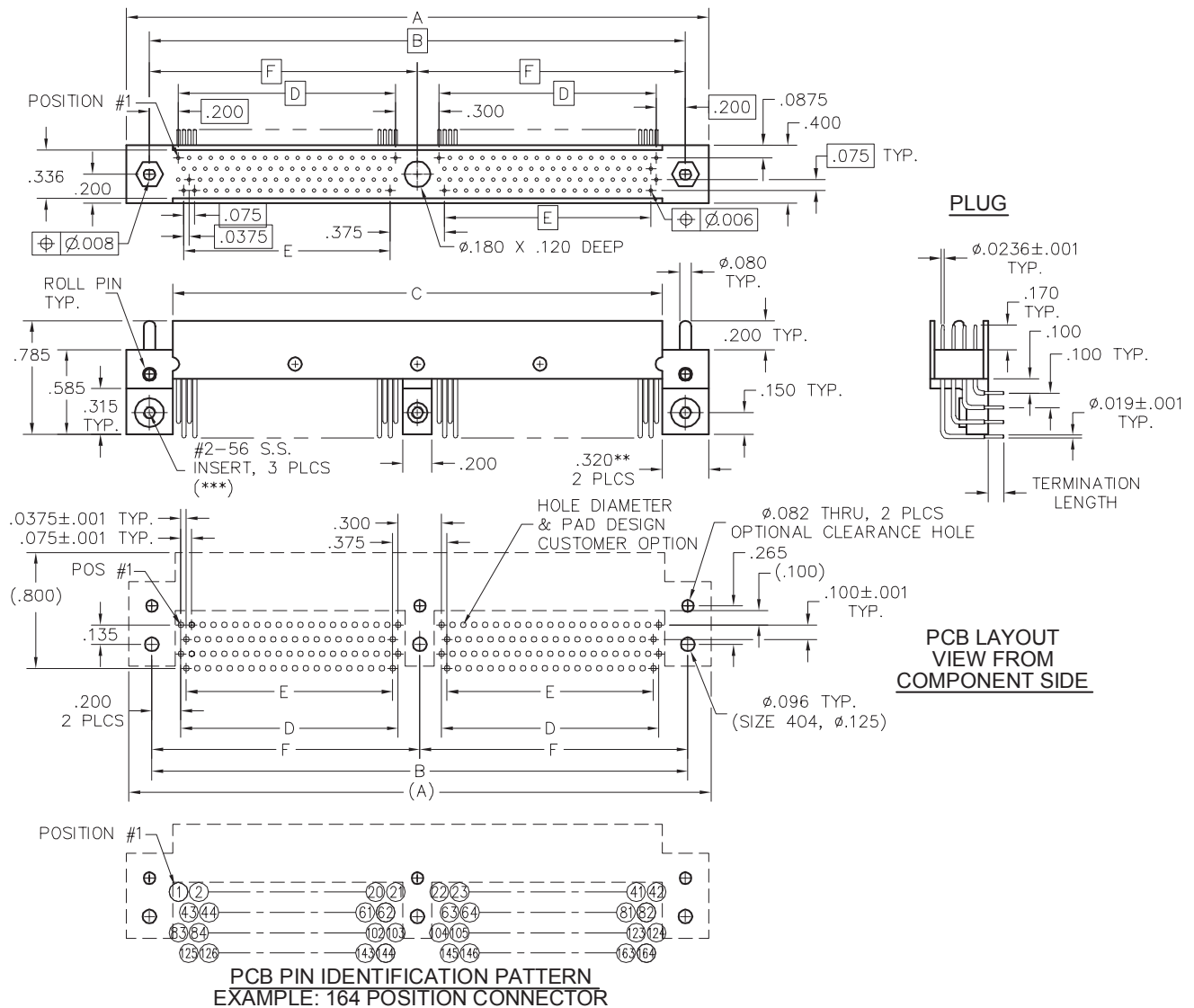
Terminations





RM – Four-Row, Right-Angle, Board-Mount Plug

Plastic ▪ 4-Row ▪ 86-404 Contacts



RIGHT ANGLE

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

NOTES:

- * = Single section, no center mounting hole
- ** = .280" for 86 position
- *** = #4-40 for 404 position
- **** = not present on 404 position

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



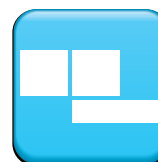
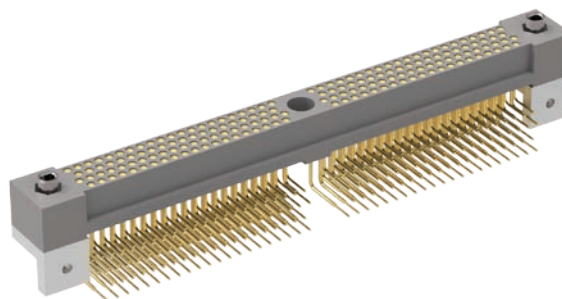
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, Right-Angle, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



Sample Part Number Format: RM462-164-852-9601



SERIES
0.075" Plastic Rectangular Connector (Receptacle)

ROWS
4 – 4-Row (86-404 contacts)

STYLE
6 – Receptacle, right-angle with mounting ears*

BODY MATERIAL
2 – Polyphenylene sulfide (PPS)

SIZE
086 – 86 contacts
110 – 110 contacts
164 – 164 contacts
196 – 196 contacts
204 – 204 contacts
220 – 220 contacts
250 – 250 contacts
276 – 276 contacts
300 – 300 contacts
404 – 404 contacts

PLATING
1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

POLARIZATION
00 – None
XX – See page 141 for codes

TERMINATION
84 – Plated thru-hole, 0.109" x 0.019" Ø
85 – Plated thru-hole, 0.140" x 0.019" Ø
86 – Plated thru-hole, 0.172" x 0.019" Ø

HARDWARE*
0256 – None
91 – Guide sockets, full round
92 – Hex turning jackset, 0.200"
93 – Fixed jackset
96 – Guide sockets, polarized**
9601-9636 – Guide sockets, polarized
97 – Guide sockets, polarized**
9701-9736 – Guide sockets, polarized
98 – Guide sockets, universal

Notes:

‡ Not RoHS-compliant

* Mounting brackets are included with this connector.

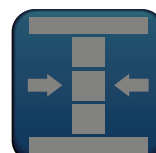
** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM412 — Four-row, straight plug
RM452 — Four-row, right-angle plug
RM412 — Four-row, I/O plug

Terminations

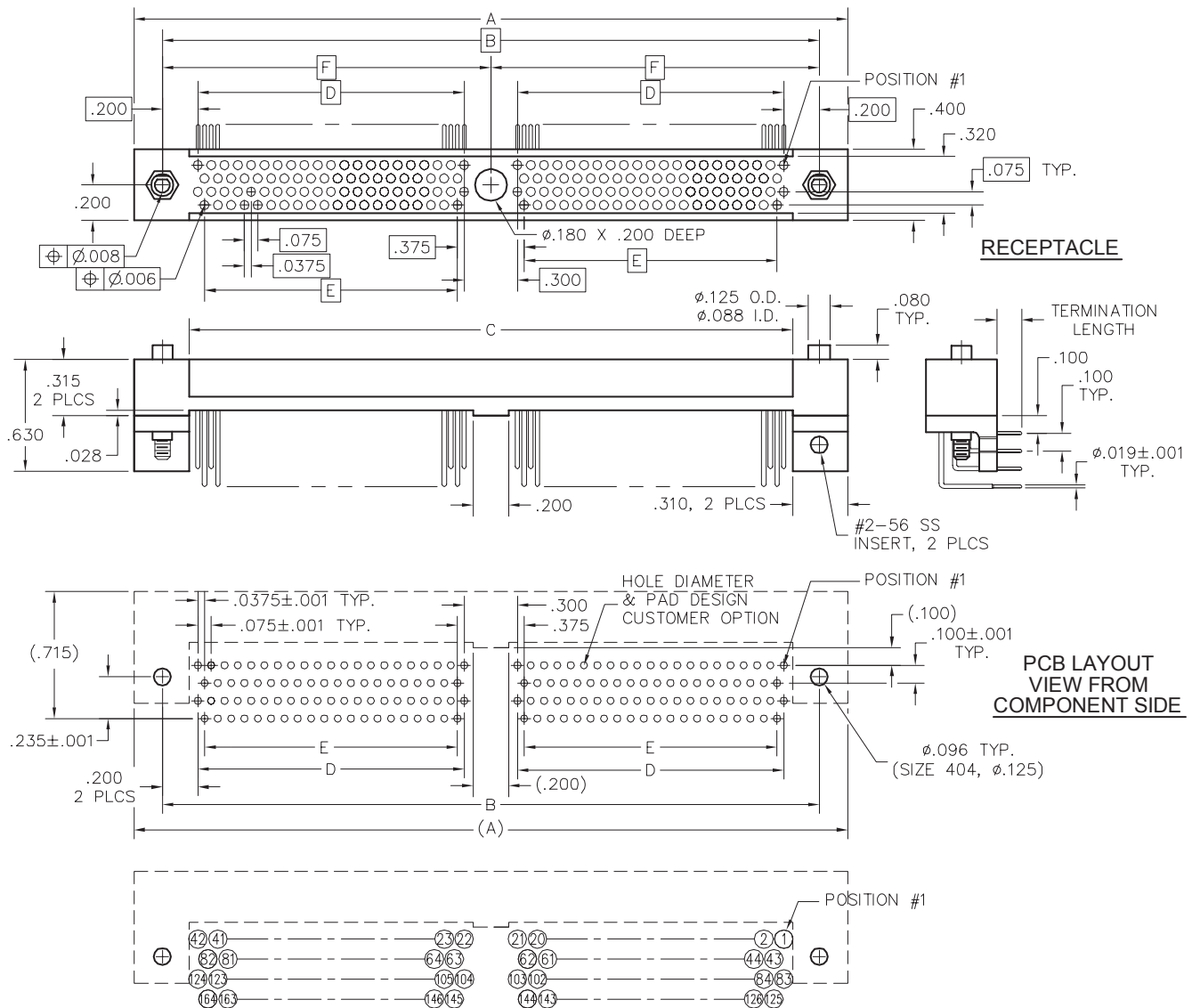




RM – Four-Row, Right-Angle, Board-Mount Receptacle

Plastic ▪ 4-Row ▪ 86-404 Contacts

RIGHT ANGLE



PCB PIN IDENTIFICATION PATTERN
VIEWED FROM COMPONENT SIDE
(EXAMPLE: 164 POSITION CONNECTOR)

NOTES:

* = Single section, no center mounting hole

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



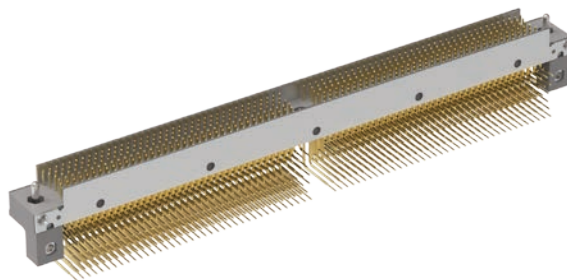
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, Right-Angle, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



6
Row

Sample Part Number Format: RM652-448-312-9501



SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

6 – 6-Row (448 & 604 contacts)

STYLE

5 – Plug, right-angle with mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

448 – 448 contacts
604 – 604 contacts

PLATING

1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

POLARIZATION

00 – None
XX – See page 141 for codes

TERMINATION

31 – Plated thru-hole, 0.109" x 0.019" Ø
32 – Plated thru-hole, 0.140" x 0.019" Ø
33 – Plated thru-hole, 0.172" x 0.019" Ø
34 – Plated thru-hole, 0.250" x 0.019" Ø

HARDWARE

0256 – None
90 – Guide pins, full round
93 – Fixed jackset
95 – Guide pins, polarized**
9501-9536 – Guide pins, polarized
99 – Guide pins, universal

Notes:

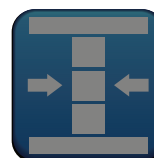
‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM622 — Six-row, straight receptacle
RM662 — Six-row, right-angle receptacle
RM622 — Six-row, I/O receptacle

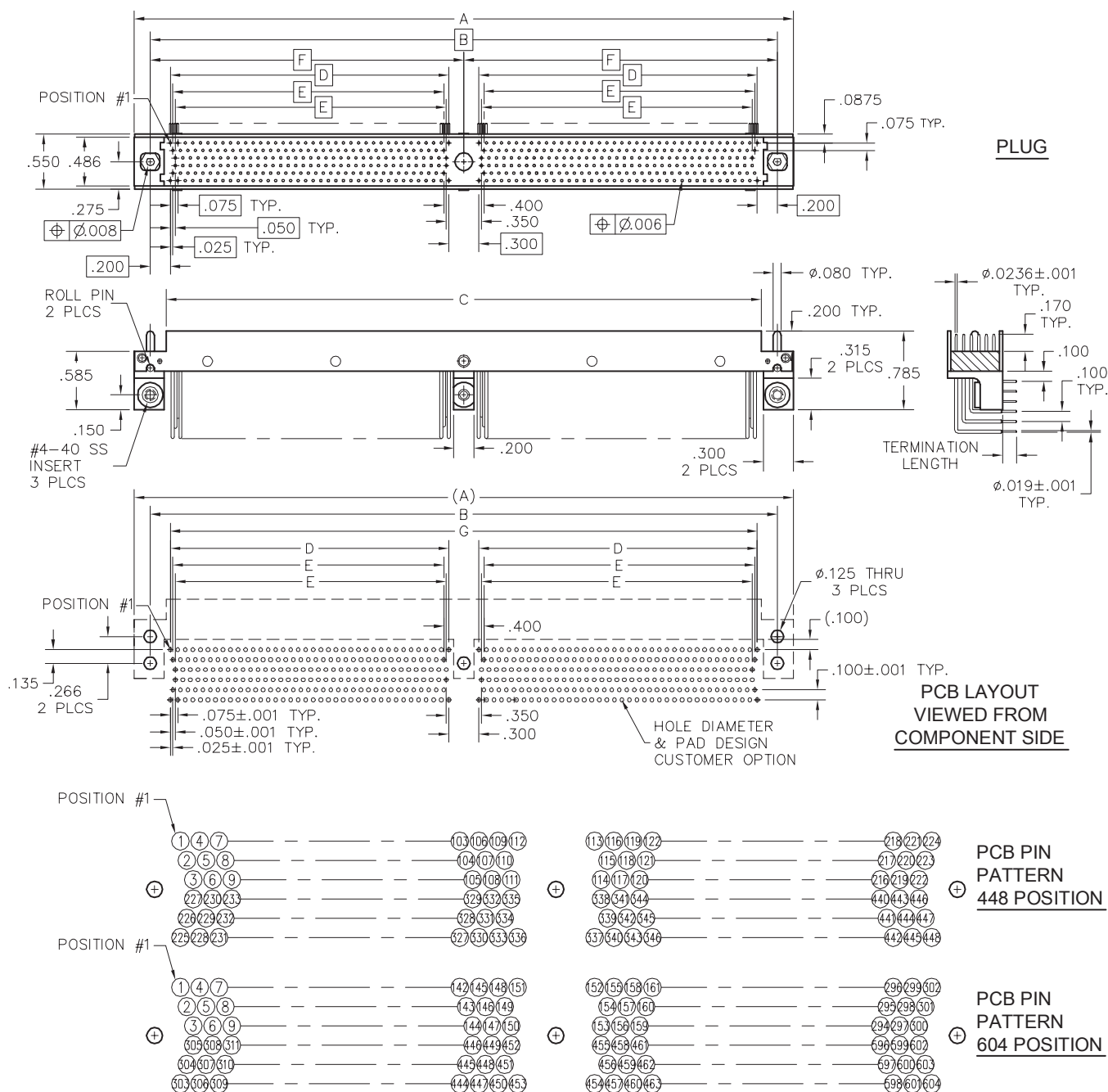
Terminations





RM – Six-Row, Right-Angle, Board-Mount Plug

Plastic ▪ 6-Row ▪ 448 & 604 Contacts



DIMENSIONS							
SIZE	A	B	C	D	E	F	G
448	6.570	6.250	5.930	2.775	2.700	3.125	5.850
604	8.520	8.200	7.900	3.750	3.675	4.100	7.800

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



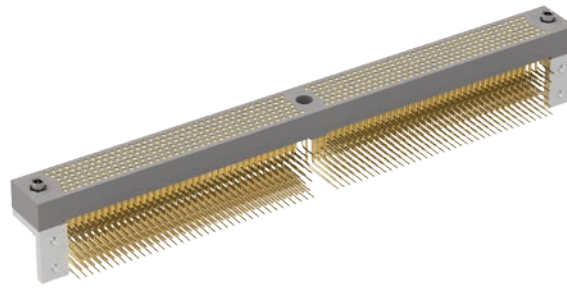
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, Right-Angle, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



Sample Part Number Format: RM662-448-852-9601



SERIES
0.075" Plastic Rectangular Connector (Receptacle)

ROWS
6 – 6-Row (448 & 604 contacts)

STYLE
6 – Receptacle, right-angle with mounting ears*

BODY MATERIAL
2 – Polyphenylene sulfide (PPS)

SIZE
448 – 448 contacts
604 – 604 contacts

PLATING
1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

POLARIZATION
00 – None
XX – See page 141 for codes

TERMINATION

84 – Plated thru-hole, 0.109" x 0.019" Ø
85 – Plated thru-hole, 0.140" x 0.019" Ø
86 – Plated thru-hole, 0.172" x 0.019" Ø

HARDWARE*

0256 – None
91 – Guide sockets, full round, #2-56 x 0.247"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
96 – Guide sockets, polarized, #2-56 x 0.320" **
9601-9636 – Guide sockets, polarized, #2-56 x 0.320"
97 – Guide sockets, polarized, #2-56 x 0.247" **
9701-9736 – Guide sockets, polarized, #2-56 x 0.247"
98 – Guide sockets, universal, #2-56 x 0.247"

Notes:

‡ Not RoHS-compliant

* Mounting brackets are included with this connector.

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM612 — Six-row, straight plug
RM652 — Six-row, right-angle plug
RM612 — Six-row, I/O plug

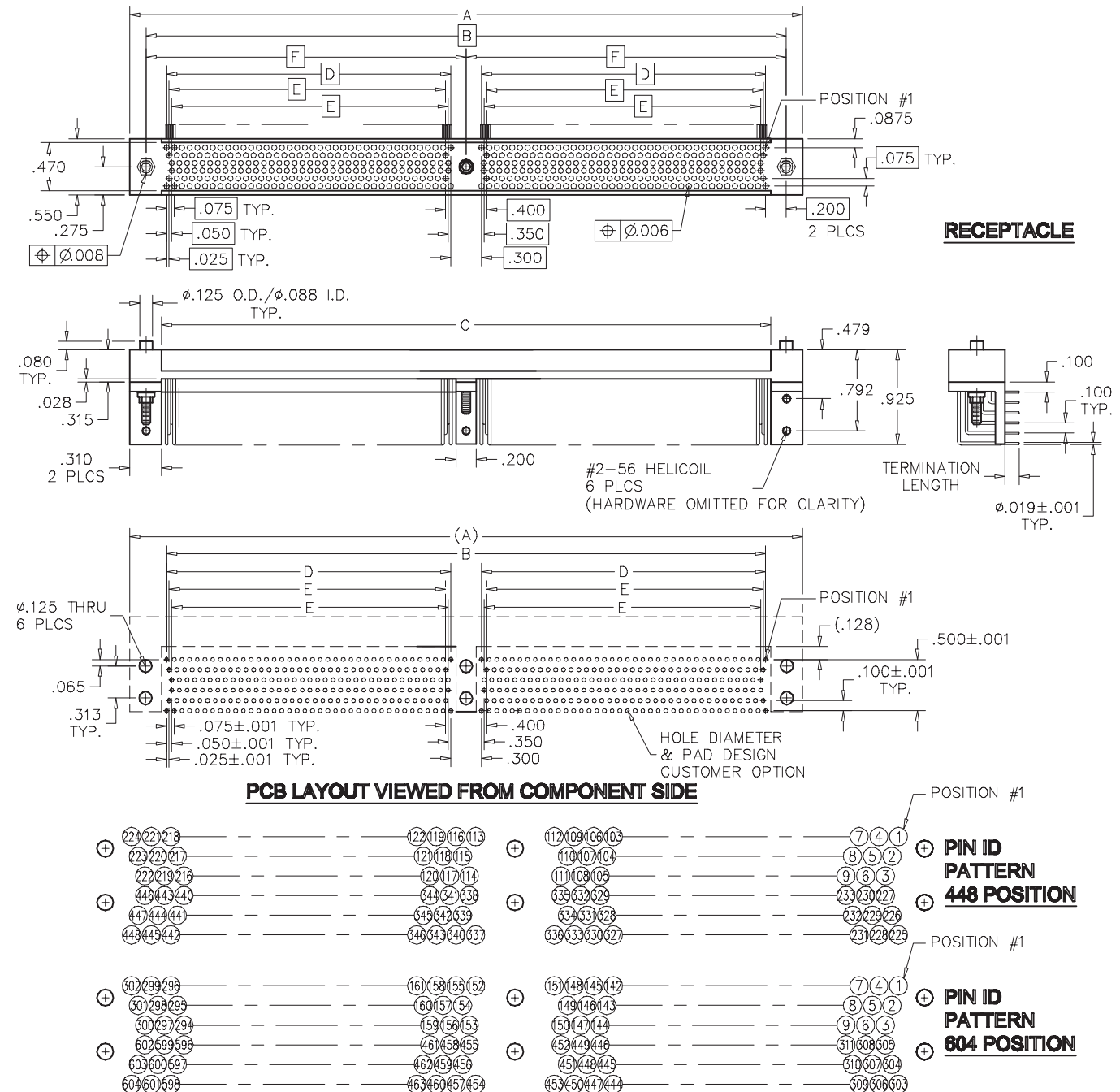
Terminations





RM – Six-Row, Right-Angle, Board-Mount Receptacle

Plastic ▪ 6-Row ▪ 448 & 604 Contacts



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



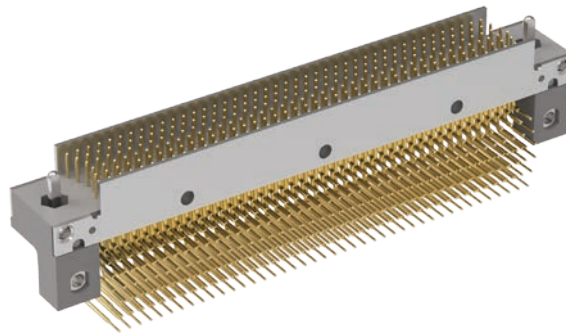
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, Right-Angle, Board-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



6
Row

Sample Part Number Format: RM672-252-312-9501



SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

6 – 6-Row (162-402 contacts)

STYLE

7 – Plug, right-angle with mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

162 – 162 contacts
204 – 204 contacts
252 – 252 contacts
300 – 300 contacts
360 – 360 contacts
402 – 402 contacts

PLATING

1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

POLARIZATION

00 – None
XX – See page 141 for codes

TERMINATION

31 – Plated thru-hole, 0.109" x 0.019" Ø
32 – Plated thru-hole, 0.140" x 0.019" Ø
33 – Plated thru-hole, 0.172" x 0.019" Ø
34 – Plated thru-hole, 0.250" x 0.019" Ø

HARDWARE

0256 – None
90 – Guide pins, full round
93 – Fixed jackset
95 – Guide pins, polarized**
9501-9536 – Guide pins, polarized
99 – Guide pins, universal

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM622 — Six-row, straight receptacle

RM662 — Six-row, right-angle receptacle

RM622 — Six-row, I/O receptacle

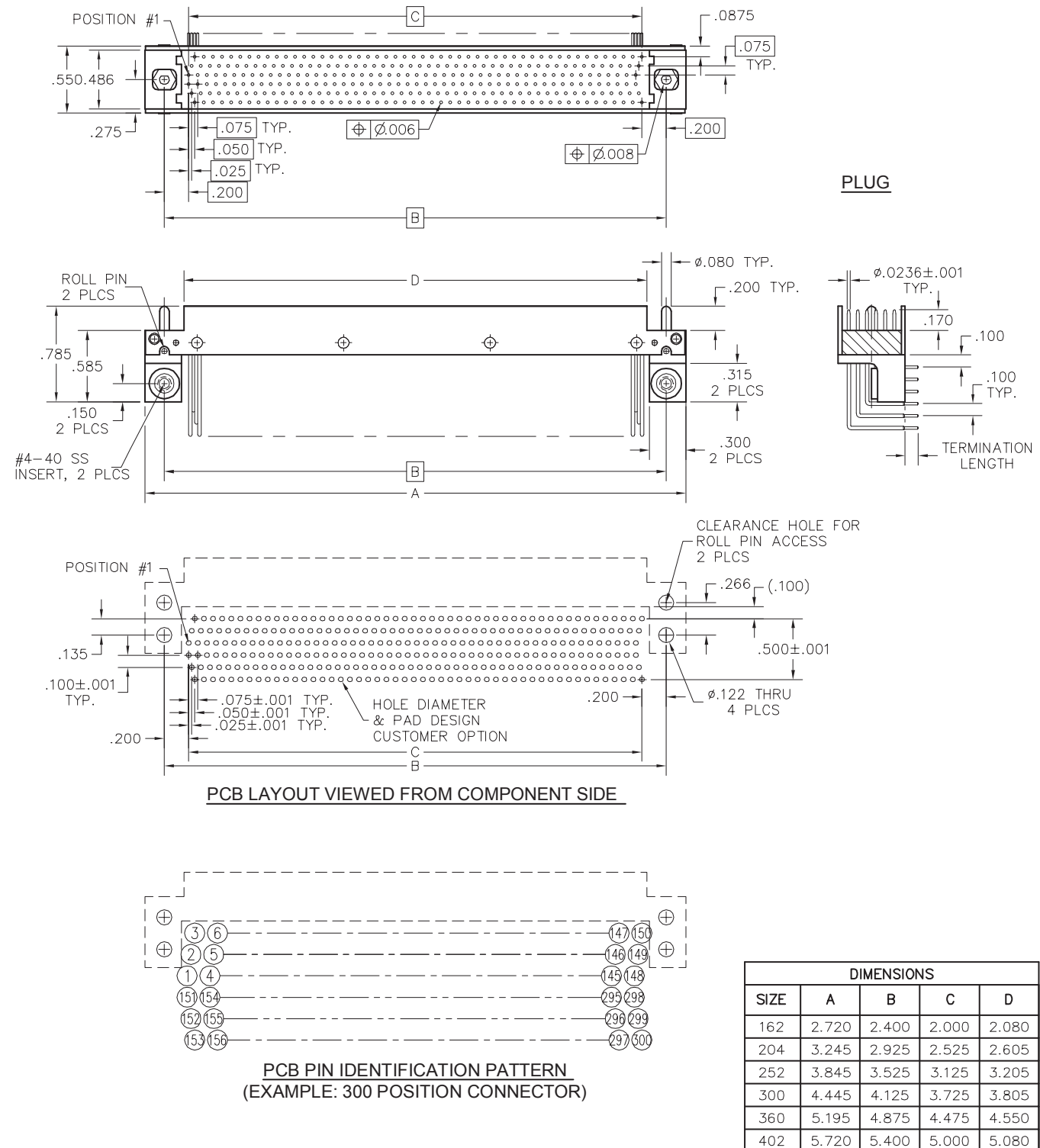
Terminations





RM – Six-Row, Right-Angle, Board-Mount Plug

Plastic ▪ 6-Row ▪ 162-402 Contacts



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



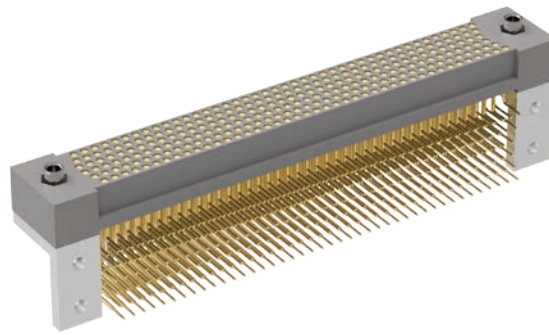
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, Right-Angle, Board-Mount Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



6
Row

Sample Part Number Format: RM682-252-852-9601



SERIES
0.075" Plastic Rectangular Connector (Receptacle)

ROWS
6 – 6-Row (162-402 contacts)

STYLE
8 – Receptacle, right-angle with mounting ears*

BODY MATERIAL
2 – Polyphenylene sulfide (PPS)

SIZE
162 – 162 contacts
204 – 204 contacts
252 – 252 contacts
300 – 300 contacts
360 – 360 contacts
402 – 402 contacts

PLATING
1 – Gold
2 – Pre-tinned, SnPb alloy ‡
3 – Pre-tinned, SAC305 alloy

POLARIZATION
00 – None
XX – See page 141 for codes

TERMINATION
84 – Plated thru-hole, 0.109" x 0.019" Ø
85 – Plated thru-hole, 0.140" x 0.019" Ø
86 – Plated thru-hole, 0.172" x 0.019" Ø

HARDWARE*
0256 – None
91 – Guide sockets, full round, #2-56 x 0.247"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
96 – Guide sockets, polarized, #2-56 x 0.320" **
9601-9636 – Guide sockets, polarized, #2-56 x 0.320"
97 – Guide sockets, polarized, #2-56 x 0.247" **
9701-9736 – Guide sockets, polarized, #2-56 x 0.247"
98 – Guide sockets, universal, #2-56 x 0.247"

Notes:

‡ Not RoHS-compliant

* Mounting brackets are included with this connector.

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM632 — Six-row, straight plug
RM652 — Six-row, right-angle plug
RM632 — Six-row, I/O plug

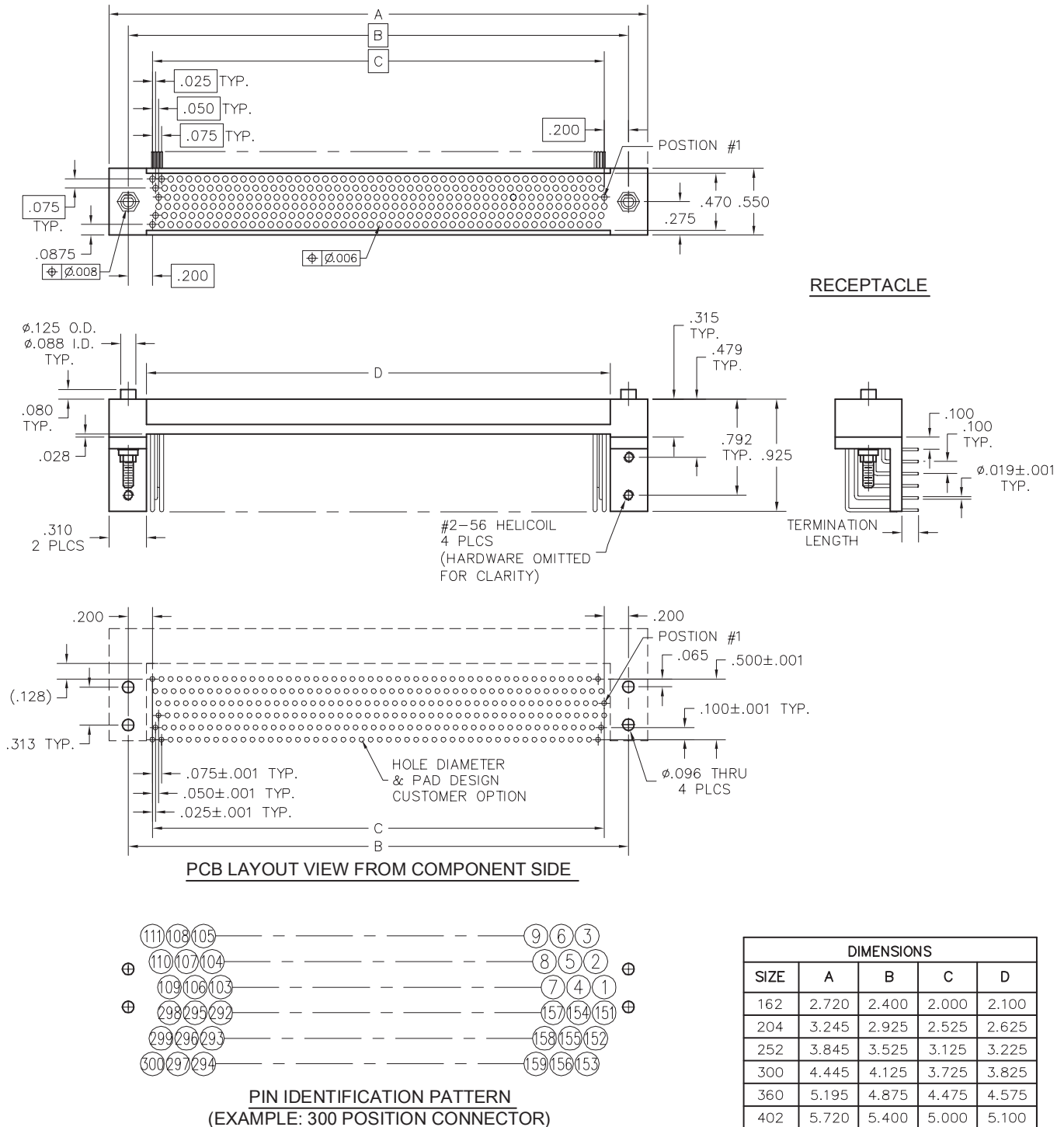
Terminations



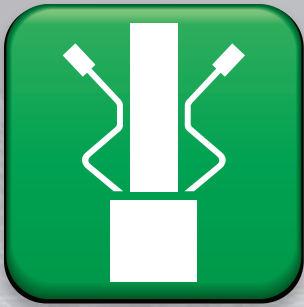


RM – Six-Row, Right-Angle, Board-Mount Receptacle

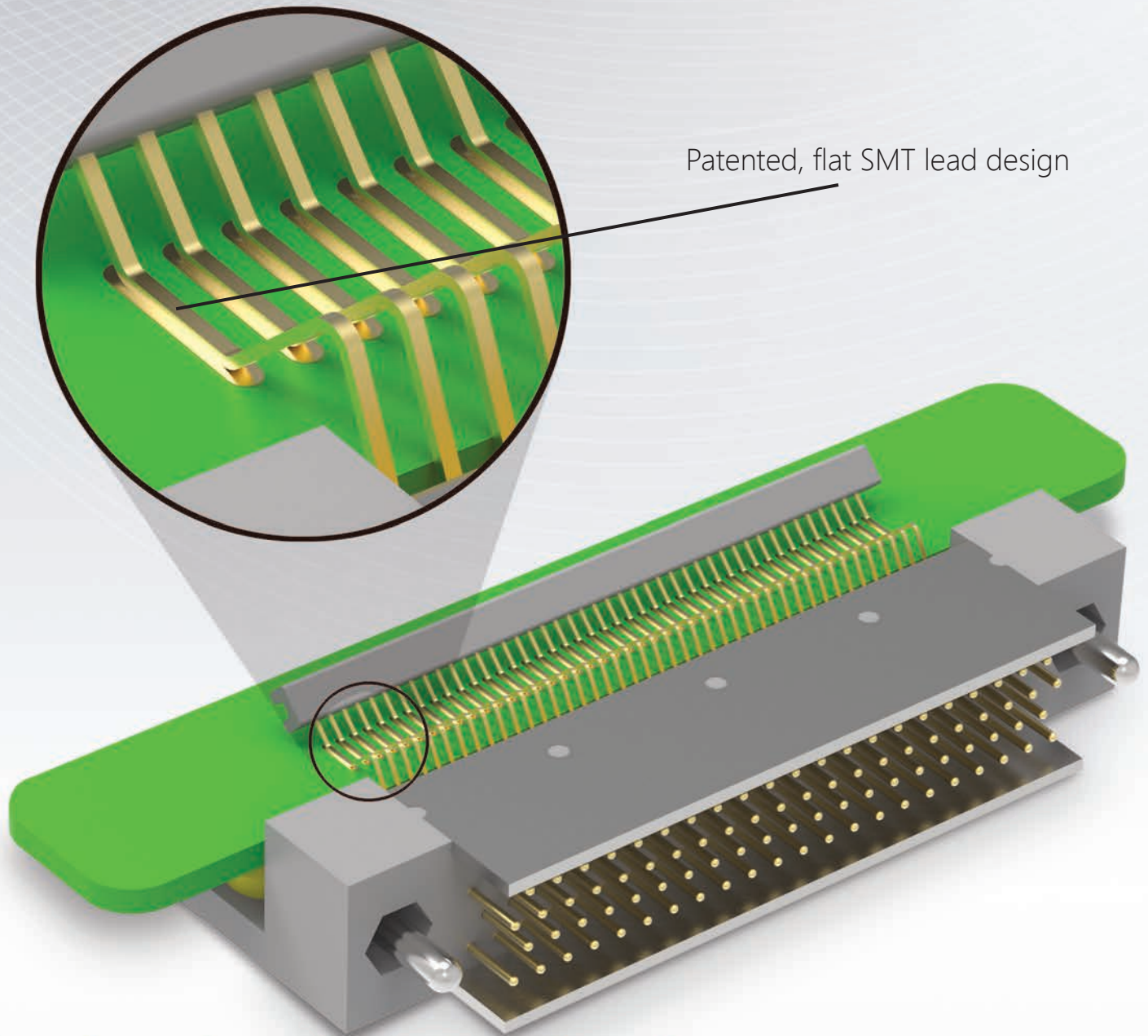
Plastic ▪ 6-Row ▪ 162-402 Contacts



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



R-Series Card-Edge Connectors



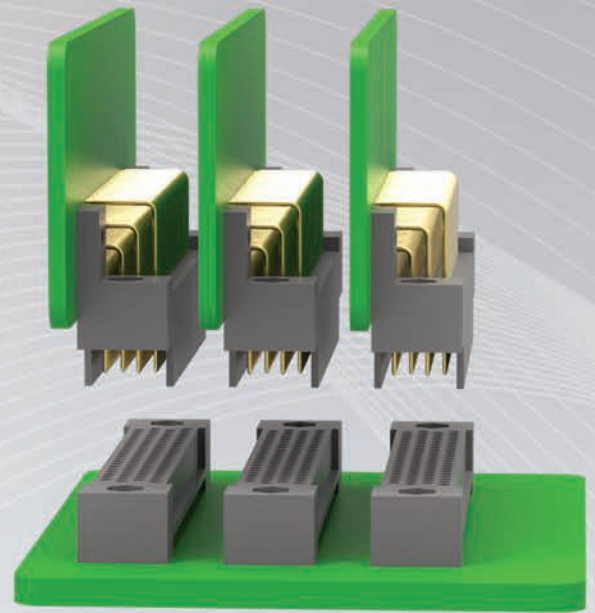
R-Series Connectors

0.075" (1.905 mm)



4 Card-Edge Connectors

Card-Edge SMT connectors allow for tighter spacing of board-level components —
Ultimately saving space and cost.



3 Right-Angle Connectors

Card-Edge connectors are the answer for designs where board-to-board stack space is critical.

This high-density interconnect provides all the same ruggedness & reliability you expect in a low-profile, surface-mount connector.

- 86-604 contacts
- Available in 4- or 6-row options
- Allows for tighter spacing of board components
- Patented SMT lead design means more surface area makes contact with the board
- Mil-C-55302 qualified



Now you're **AirBorn Connected®**



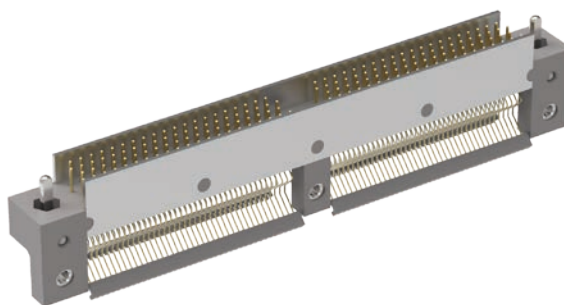
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, Card-Edge, Surface-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series card-edge connectors are a high-density interconnect solution for applications where board space is limited.



Sample Part Number Format: RM412-164-192-9501-933

RM	4	1	2	-	-	19	-	-	-	-
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 4 – 4-Row (86-404 contacts)	STYLE 1 – Plug, straight with mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 086 – 86 contacts 110 – 110 contacts 164 – 164 contacts 196 – 196 contacts 204 – 204 contacts 220 – 220 contacts 250 – 250 contacts 276 – 276 contacts 300 – 300 contacts 404 – 404 contacts		PLATING 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy		POLARIZATION 00 – None XX – See page 141 for codes	OPTIONS 9XX – Refer to SMT Configuration Codes on page 131	
					TERMINATION 19 – SMT, 0.014" x 0.007" tail, scored		HARDWARE 0256 – None 90 – Guide pins, full round 93 – Fixed jacket 95 – Guide pins, polarized** 9501-9536 – Guide pins, polarized 99 – Guide pins, universal			

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM422 — Four-row, straight receptacle
RM462 — Four-row, right-angle receptacle
RM422 — Four-row, I/O receptacle

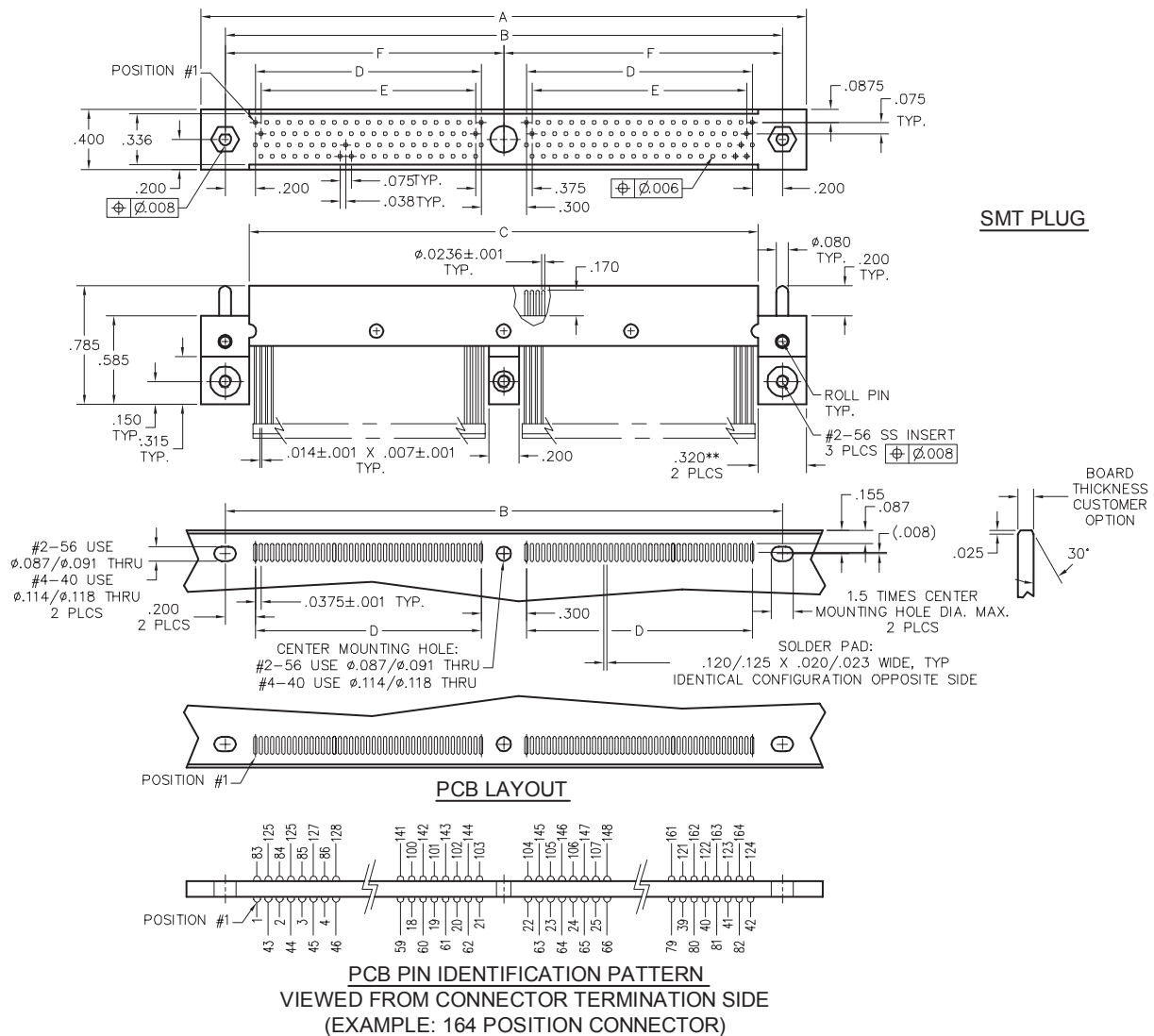
Terminations





RM – Four-Row, Card-Edge, Surface-Mount Plug

Plastic ▪ 4-Row ▪ 86-404 Contacts



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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



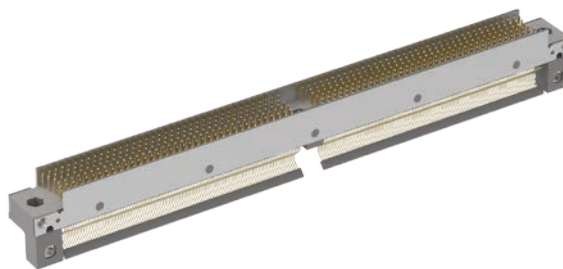
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, Card-Edge, Surface-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series card-edge connectors are a high-density interconnect solution for applications where board space is limited.



6
Row

Sample Part Number Format: RM612-448-192-9501-985

RM	6	1	2	-		-	19		-			-	
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 6 – 6-Row (448 & 604 contacts)	STYLE 1 – Plug, straight with mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 448 – 448 contacts 604 – 604 contacts			PLATING 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy			POLARIZATION 00 – None XX – See page 141 for codes			OPTIONS 9XX – Refer to SMT Configuration Codes on page 131
							TERMINATION 19 – SMT, 0.014" x 0.007" tail, scored			HARDWARE 0256 – None 90 – Guide pins, full round 93 – Fixed jackset 95 – Guide pins, polarized* 9501-9536 – Guide pins, polarized 99 – Guide pins, universal			

Notes:

‡ Not RoHS-compliant

* This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM622 — Six-row, straight receptacle
RM662 — Six-row, right-angle receptacle
RM622 — Six-row, I/O receptacle

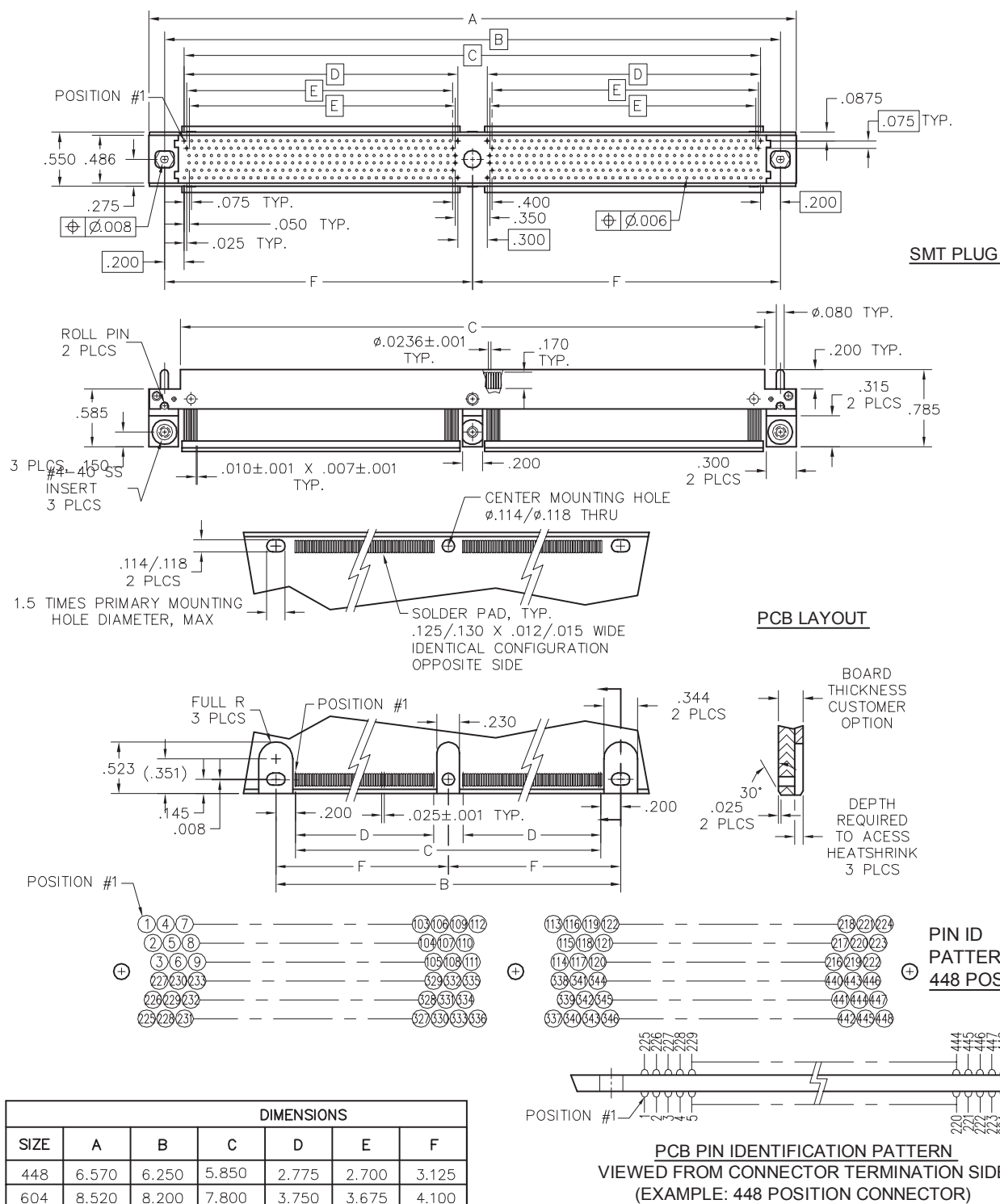
Terminations





RM – Six-Row, Card-Edge, Surface-Mount Plug

Plastic ▪ 6-Row ▪ 448 & 604 Contacts



CARD EDGE



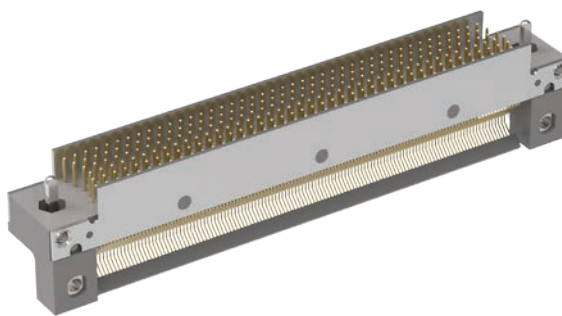
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, Card-Edge, Surface-Mount Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series card-edge connectors are a high-density interconnect solution for applications where board space is limited.



6
Row

Sample Part Number Format: RM632-252-192-9501-985

RM	6	3	2	-		-	19		-			-	
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 6 – 6-Row (162-402 contacts)	STYLE 3 – Plug, straight with mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)		SIZE 162 – 162 contacts 204 – 204 contacts 252 – 252 contacts 300 – 300 contacts 360 – 360 contacts 402 – 402 contacts		PLATING 2 – Pre-tinned, SnPb alloy ‡ 3 – Pre-tinned, SAC305 alloy			POLARIZATION 00 – None XX – See page 141 for codes		TERMINATION 19 – SMT, 0.014" x 0.007" tail, scored	HARDWARE 0256 – None 90 – Guide pins, full round 93 – Fixed jacket 95 – Guide pins, polarized** 9501-9536 – Guide pins, polarized 99 – Guide pins, universal
													OPTIONS 9XX – Refer to SMT Configuration Codes on page 131

Notes:

- ‡ Not RoHS-compliant
- * Pre-tin is not available with flex circuit termination.
- ** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

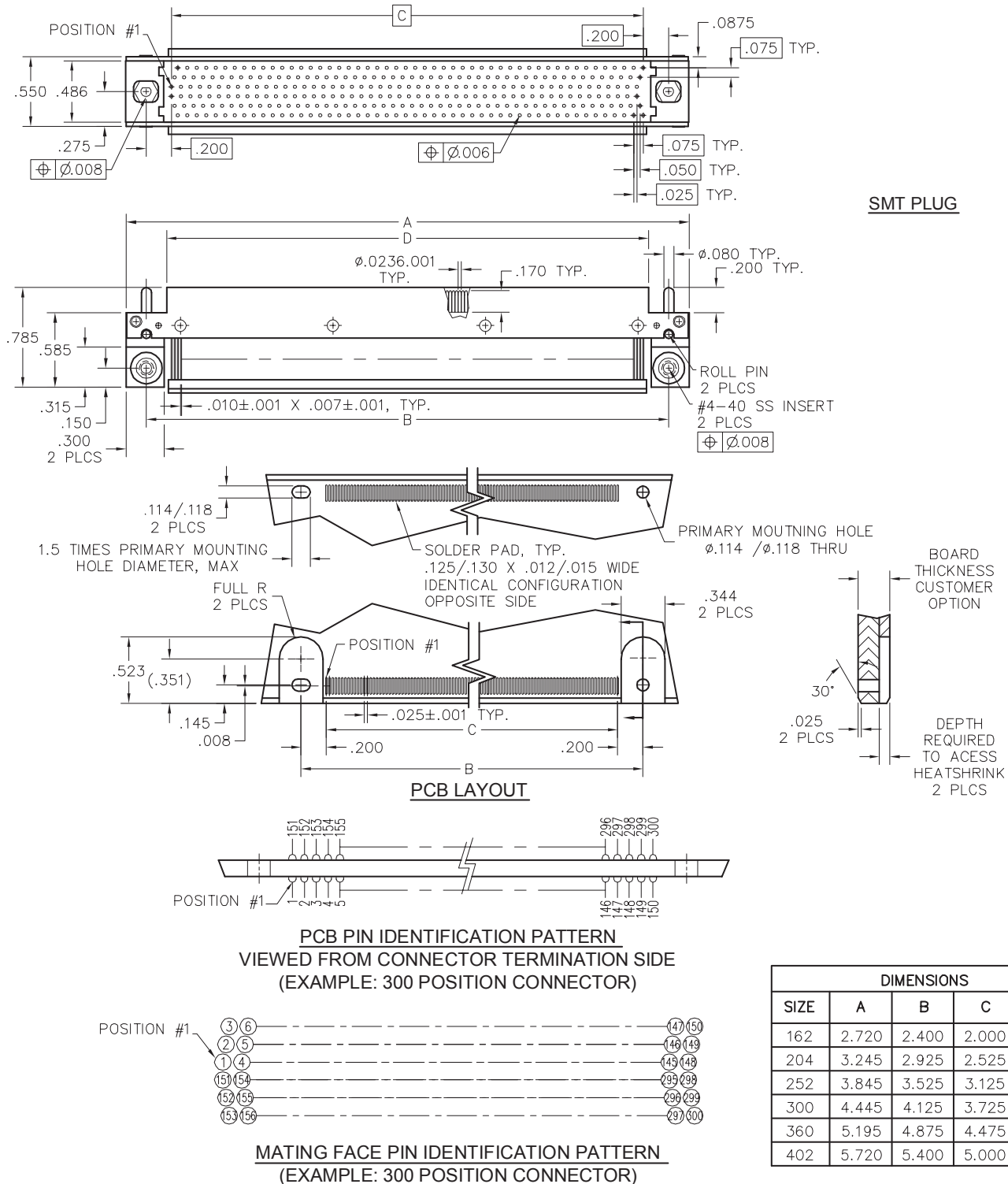
RM622 — Six-row, straight receptacle
RM662 — Six-row, right-angle receptacle
RM622 — Six-row, I/O receptacle

Terminations



RM – Six-Row, Card-Edge, Surface-Mount Plug

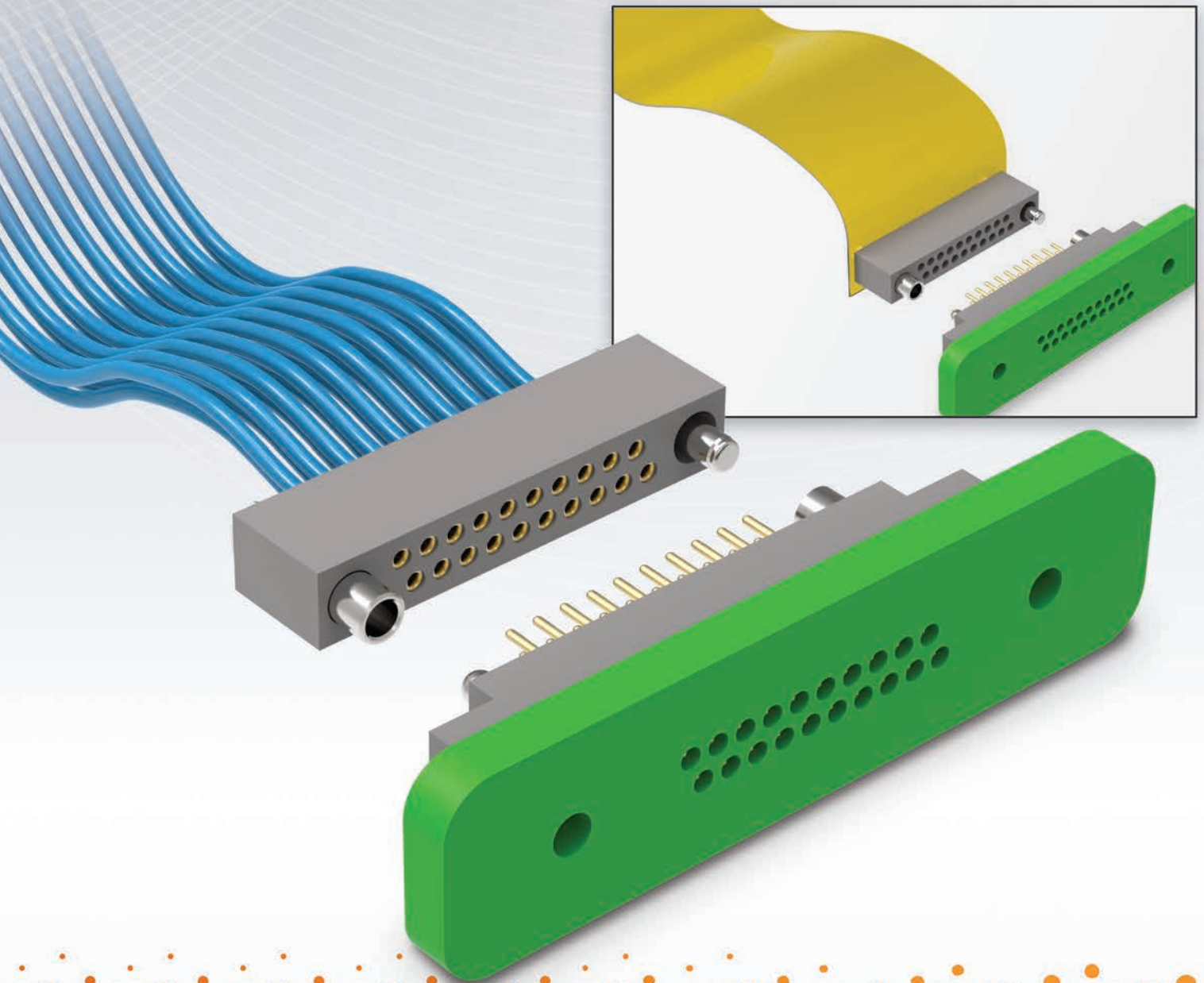
Plastic ▪ 6-Row ▪ 162-402 Contacts



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

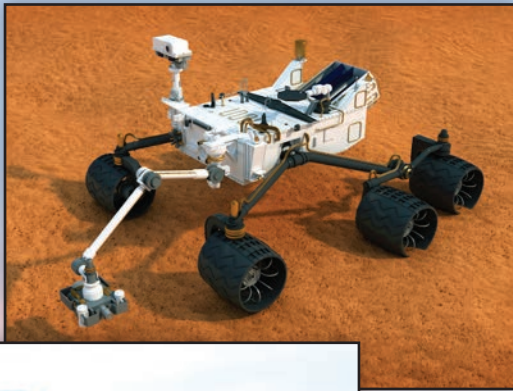


Factory Pre-Terminated I/O Connectors



R-Series Connectors

0.075" (1.905 mm)



AirBorn's RA model I/O connectors come completely factory pre-terminated for your convenience.

This reduces production time & variance while freeing up time to devote to other facets of product design and engineering.

- 10-104 contacts
- Crimped wire terminations
- RA connector models are completely factory pre-terminated

Now you're **AirBorn Connected®**



R Series

High-Density
0.075"
(1.905mm)

RA – Two-Row, I/O, Crimped-Wire Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with pre-terminated wires.



2
Row

Sample Part Number Format: RA2H2-020-2HC-5900

RA

SERIES
0.075" Plastic Rectangular I/O Connector (Receptacle)

2

ROWS
2 – 2-Row (10-100 contacts)

E

STYLE
E – Receptacle, straight with potting well and mounting ears
F – Receptacle, straight with potting well; without mounting ears
G – Receptacle, straight without potting well; with mounting ears
H – Receptacle, straight without potting well and mounting ears

2

BODY MATERIAL
2 – Polyphenylene sulfide (PPS)

020

SIZE
010 – 10 contacts
020 – 20 contacts
030 – 30 contacts
040 – 40 contacts
050 – 50 contacts
060 – 60 contacts
070 – 70 contacts
080 – 80 contacts
090 – 90 contacts
100 – 100 contacts

2

WIRING
XX – See page 125 for codes
TERMINATION
2 – Crimp with 28-30 AWG contacts
4 – Crimp with 22-26 AWG contacts

HC

5900

HARDWARE
0256 – None
5500 – Guide set
5501-5568 – Guide set, polarized (See page 133 for codes)
5570 – Guide set, polarized - Same as above, but without Loctite® (customer-keyed)
5700 – Two guide pins
5800 – Two guide sockets
JACKING HARDWARE
2900 – Fixed jackset
3000 – Fixed jackset, reversed
1900 – Two fixed jackscrews
2000 – Two fixed jackscrews
5900 – Hex turning jackset, 0.200"
6000 – Hex turning jackset reversed, 0.200"
6100 – Two hex turning jackscrews, 0.200"
6200 – Two hex turning jackscrews, 0.200"
6400 – Turning jackset, 0.490"
6500 – Turning jackset reversed, 0.490"
6600 – Two turning jackscrews, 0.490"
6700 – Two turning jackscrews, 0.490"

Notes:

- 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 once.
- See page 142 for crimp instructions, contact insertion and contact removal tools.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

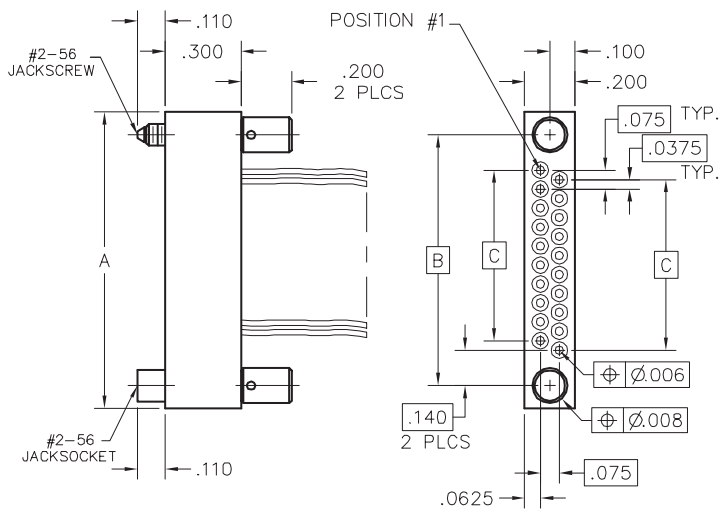
RM212 & RM232 — Two-row, straight plug
RM252 & RM272 — Two-row, right-angle plug
RM212 — Two-row, I/O plug

Terminations

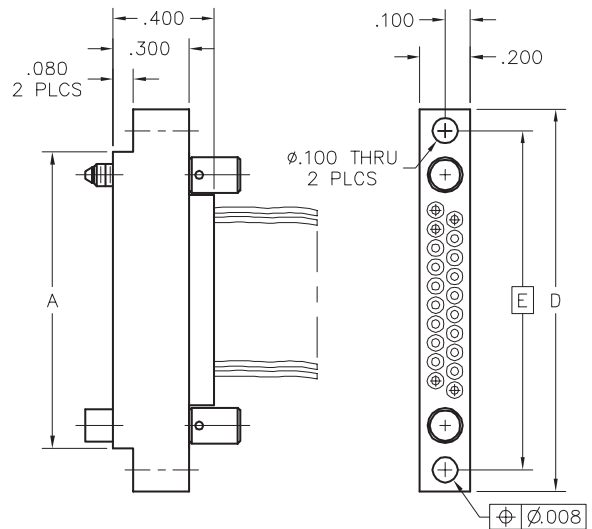


RA – Two-Row, I/O, Crimped-Wire Receptacle

Plastic ▪ 2-Row ▪ 10-100 Contacts

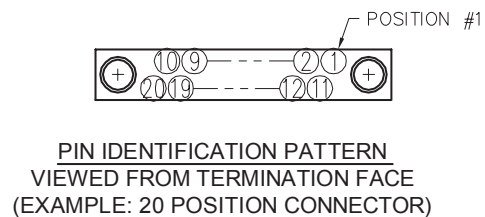


RECEPTACLE WITHOUT
MOUNTING EARS OR
POTTING WELL



RECEPTACLE WITH
MOUNTING EARS AND
POTTING WELL

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



REPLACEMENT CONTACTS:

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

SEE PAGE 140 & 141 FOR CRIMP INSTRUCTIONS, CONTACT INSERTION AND CONTACT REMOVAL TOOLS.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



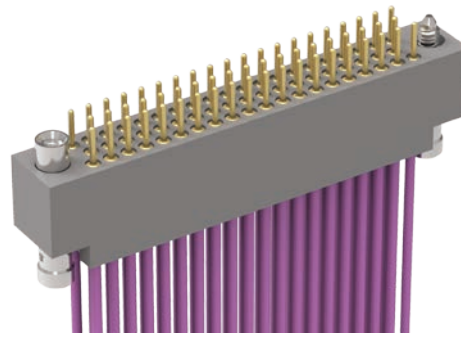
R Series

High-Density
0.075"
(1.905mm)

RA – Three-Row, I/O, Crimped-Wire Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with pre-terminated wires.



3
Row

Sample Part Number Format: RA3D2-059-3EA-5900

RA	3		2	-		-		-	
SERIES 0.075" Plastic Rectangular I/O Connector (Plug)	ROWS 3 – 3-Row (11-104 contacts)		BODY MATERIAL 2 – Polyphenylene sulfide (PPS)		SIZE 011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts 104 – 104 contacts		WIRING XX – See page 125 for codes		HARDWARE 0256 – None 5500 – Guide set 5501-5568 – Guide set, polarized (See page 133 for codes) 5570 – Guide set, polarized - Same as above, but without Loctite® (customer-keyed) 5700 – Two guide pins 5800 – Two guide sockets 2900 – Fixed jackset 3000 – Fixed jackset, reversed 1900 – Two fixed jackscrews 2000 – Two fixed jackscrews 5900 – Hex turning jackset, 0.200" 6000 – Hex turning jackset reversed, 0.200" 6100 – Two hex turning jackscrews, 0.200" 6200 – Two hex turning jackscrews, 0.200" 6400 – Turning jackset, 0.490" 6500 – Turning jackset reversed, 0.490" 6600 – Two turning jackscrews, 0.490" 6700 – Two turning jackscrews, 0.490"
		STYLE A – Plug, straight with potting well and mounting ears B – Plug, straight with potting well; without mounting ears C – Plug, straight without potting well; with mounting ears D – Plug, straight without potting well and mounting ears			TERMINATION 1 – Crimp with 28-30 AWG contacts 3 – Crimp with 22-26 AWG contacts				

Notes:

- 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 once.
- See page 142 for crimp instructions, contact insertion and contact removal tools.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

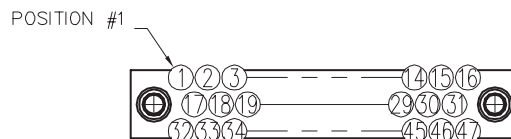
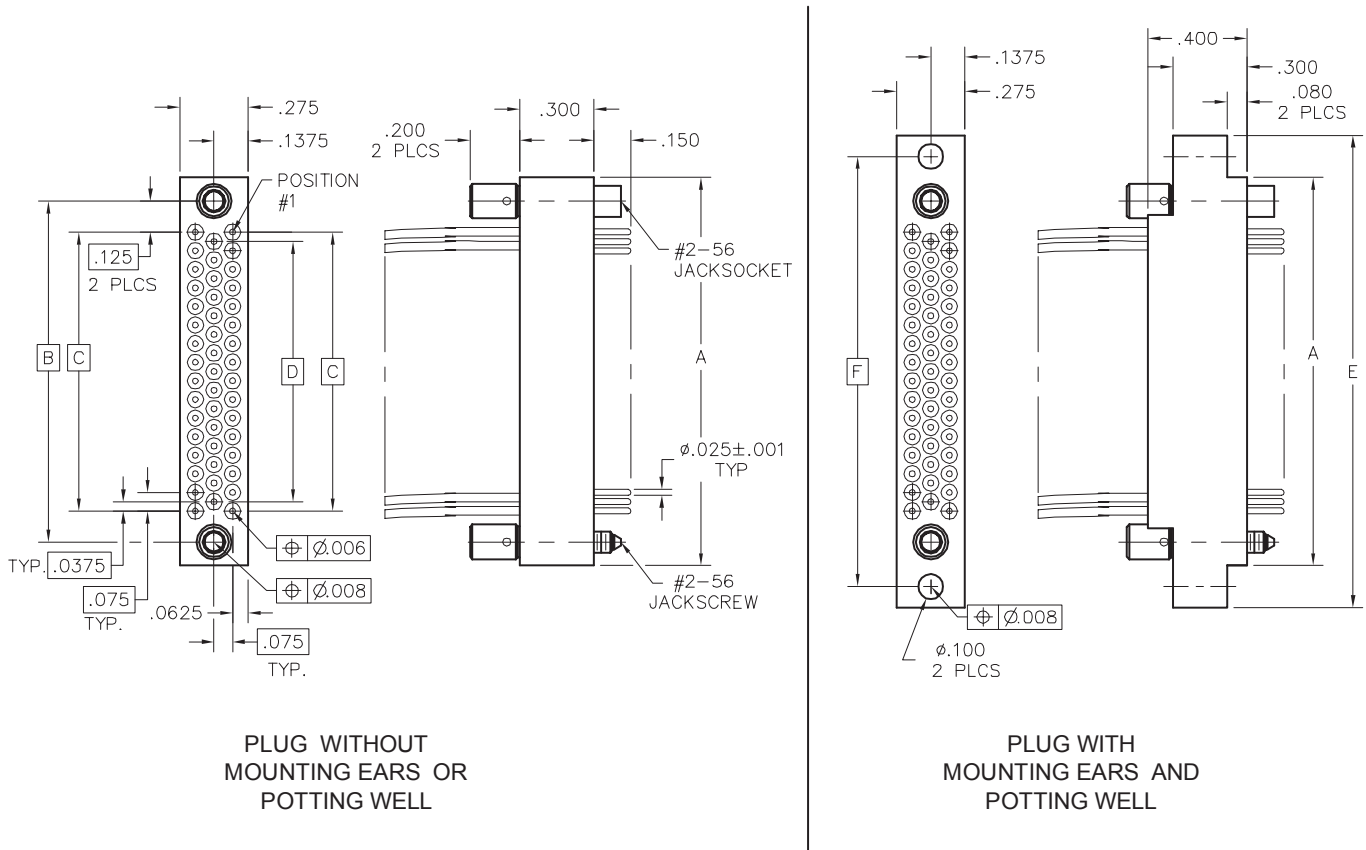
RM322 & RM342 — Three-row, straight receptacle
RM362 & RM382 — Three-row, right-angle receptacle
RA3 — Three-row, I/O receptacle
RM32 — Three-row, I/O receptacle

Terminations



RA – Three-Row, I/O, Crimped-Wire Plug

Plastic ▪ 3-Row ▪ 11-104 Contacts



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 47 POSITION CONNECTOR)

DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	.225	.150	1.005	.835
23	.965	.775	.525	.450	1.305	1.135
35	1.265	1.075	.825	.750	1.605	1.435
47	1.565	1.375	1.125	1.050	1.905	1.735
59	1.865	1.675	1.425	1.350	2.205	2.035
71	2.165	1.975	1.725	1.650	2.505	2.335
80	2.390	2.200	1.950	1.875	2.730	2.560
104	2.990	2.800	2.550	2.475	3.330	3.160

REPLACEMENT CONTACTS:

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

SEE PAGE 140 & 141 FOR CRIMP INSTRUCTIONS, CONTACT INSERTION AND CONTACT REMOVAL TOOLS.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



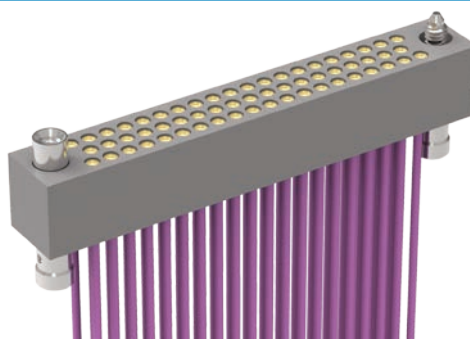
R Series

High-Density
0.075"
(1.905mm)

RA – Three-Row, I/O, Crimped-Wire Receptacle

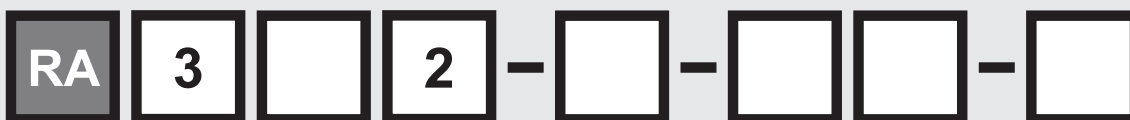
Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with pre-terminated wires.



3
Row

Sample Part Number Format: RA3H2-080-4EA-5900



SERIES
0.075" Plastic
Rectangular
I/O Connector
(Receptacle)

ROWS
3 – 3-Row
(11-104
contacts)

STYLE
E – Receptacle,
straight with
potting well and
mounting ears
F – Receptacle,
straight with
potting well;
without mounting
ears
G – Receptacle,
straight without
potting well; with
mounting ears
H – Receptacle,
straight without
potting well and
mounting ears

BODY MATERIAL
2 – Polyphenylene
sulfide (PPS)

SIZE
011 – 11 contacts
023 – 23 contacts
035 – 35 contacts
047 – 47 contacts
059 – 59 contacts
071 – 71 contacts
080 – 80 contacts
104 – 104 contacts

TERMINATION
2 – Crimp with 28-30 AWG contacts
4 – Crimp with 22-26 AWG contacts

WIRING
XX – See page
125 for codes

HARDWARE
0256 – None
5500 – Guide set
5501-5568 – Guide set, polarized
(See page 133)
5570 – Guide set, polarized - Same as above,
but without Loctite® (customer-keyed)
5700 – Two guide pins
5800 – Two guide sockets
2900 – Fixed jackset
3000 – Fixed jackset, reversed
1900 – Two fixed jackscrews
2000 – Two fixed jackscrews
5900 – Hex turning jackset, 0.200"
6000 – Hex turning jackset reversed, 0.200"
6100 – Two hex turning jackscrews, 0.200"
6200 – Two hex turning jackscrews, 0.200"
6400 – Turning jackset, 0.490"
6500 – Turning jackset reversed, 0.490"
6600 – Two turning jackscrews, 0.490"
6700 – Two turning jackscrews, 0.490"

Notes:

- 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 once.
- See page 142 for crimp instructions, contact insertion and contact removal tools.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

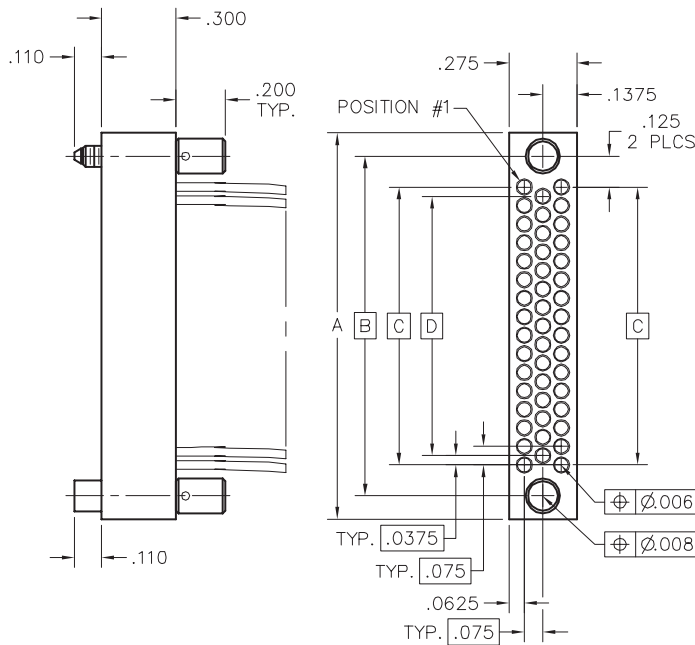
RM312 & RM332 — Three-row, straight plug
RM352 & RM372 — Three-row,
right-angle plug
RA3 — Three-row, I/O plug
RM312 & RM332 — Three-row, I/O plug

Terminations

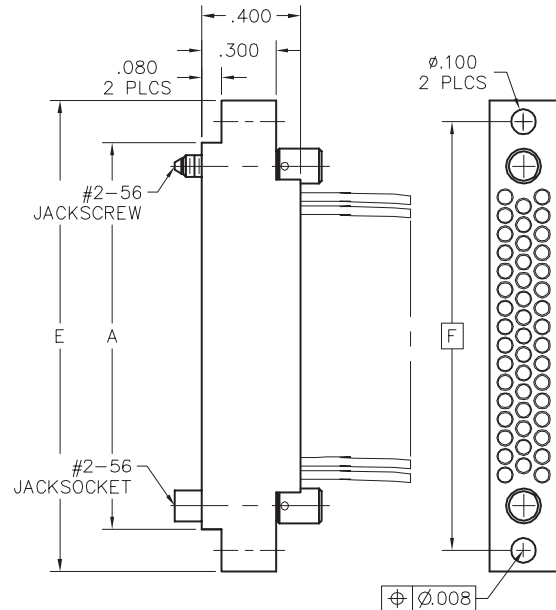


RA – Three-Row, I/O, Crimped-Wire Receptacle

Plastic ▪ 3-Row ▪ 11-104 Contacts

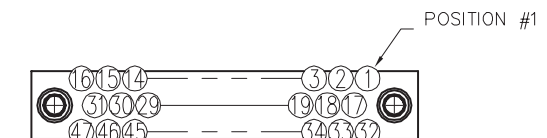


RECEPTACLE WITHOUT
MOUNTING EARS OR
POTTING WELL



RECEPTACLE WITH
MOUNTING EARS AND
POTTING WELL

DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	.225	.150	1.005	.835
23	.965	.775	.525	.450	1.305	1.135
35	1.265	1.075	.825	.750	1.605	1.435
47	1.565	1.375	1.125	1.050	1.905	1.735
59	1.865	1.675	1.425	1.350	2.205	2.035
71	2.165	1.975	1.725	1.650	2.505	2.335
80	2.390	2.200	1.950	1.875	2.730	2.560
104	2.990	2.800	2.550	2.475	3.330	3.160



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 47 POSITION CONNECTOR)

REPLACEMENT CONTACTS:

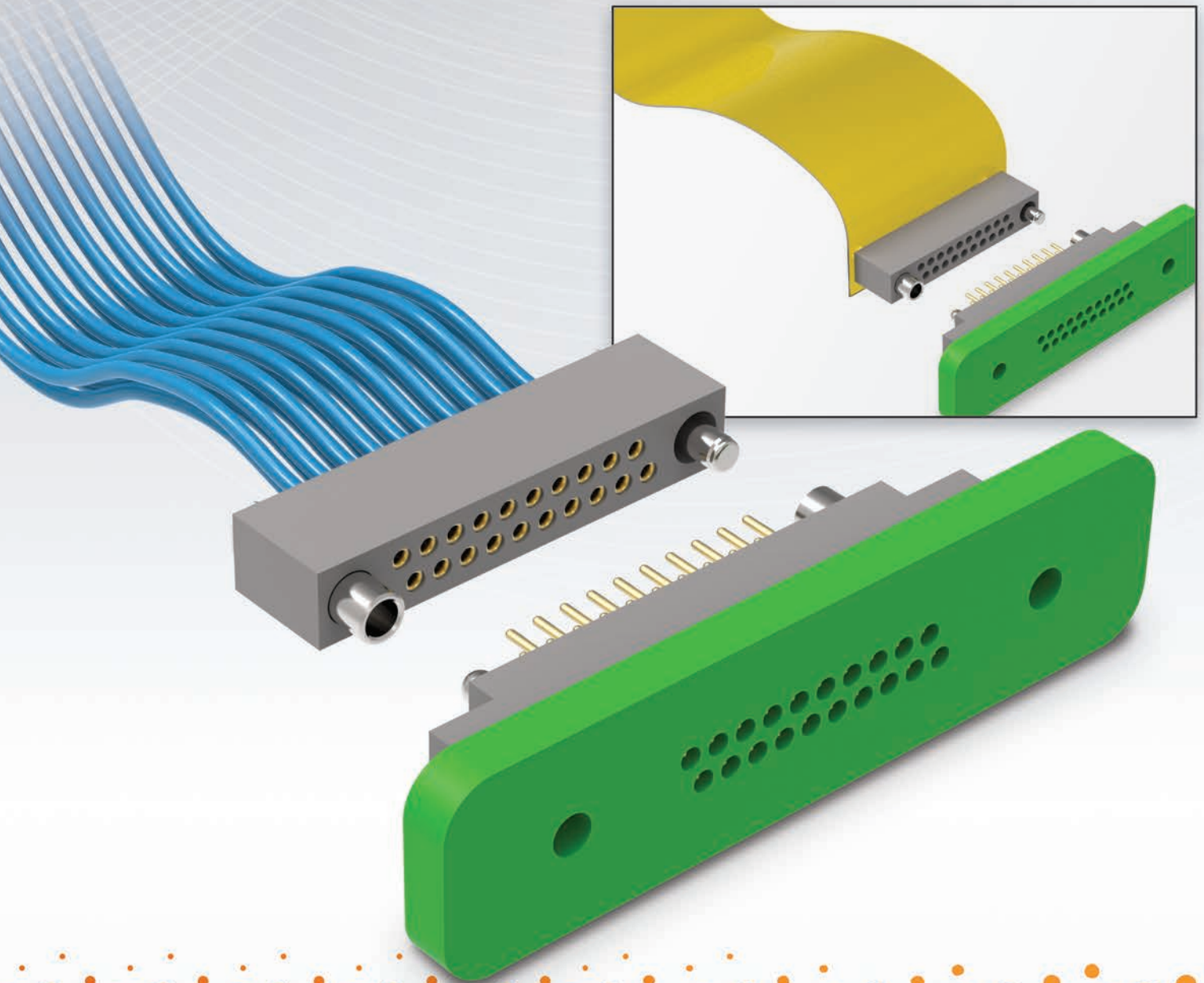
RA000-001-200-0000
RA000-001-400-0000

SEE PAGE 140 & 141 FOR CRIMP INSTRUCTIONS, CONTACT INSERTION AND CONTACT REMOVAL TOOLS.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

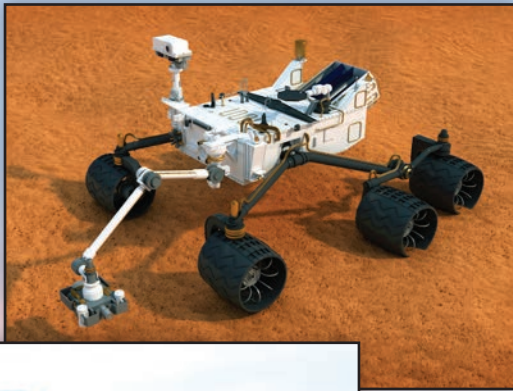


Customer Terminated I/O Connectors



R-Series Connectors

0.075" (1.905 mm)



AirBorn offers the widest array of I/O connectors available, with crimp-removable, solder-cup or single-layer flex termination options available.

Your RM model I/O connector is customer terminated or AirBorn can ship to your specified termination level before leaving the factory.

- 10-604 contacts
- Cable & single-layer flex circuit compatible
- RM connectors are terminated by customer or can be completed to customer specified levels

Now you're **AirBorn Connected[®]**



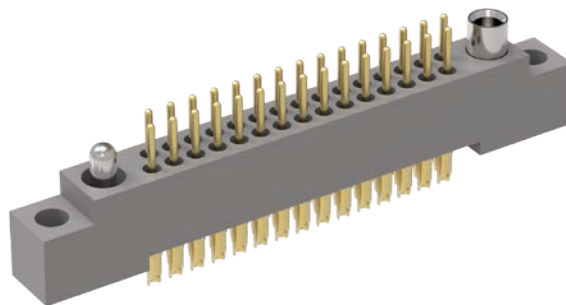
R Series

High-Density
0.075"
(1.905mm)

RM – Two-Row, I/O Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



2
Row

Sample Part Number Format: RM212-020-111-5500

RM	2		2	—		—		1	—		
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 2 – 2-Row (10-100 contacts)	STYLE 1 – Plug, straight with mounting ears 3 – Plug, straight without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 010 – 10 contacts 020 – 20 contacts 030 – 30 contacts 040 – 40 contacts 050 – 50 contacts 060 – 60 contacts 070 – 70 contacts 080 – 80 contacts 090 – 90 contacts 100 – 100 contacts	TERMINATION 11 – Solder cup 15 – Flex, 0.093" x 0.017" Ø	PLATING 1 – Gold	HARDWARE 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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	POLARIZATION 00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)			

Notes:

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

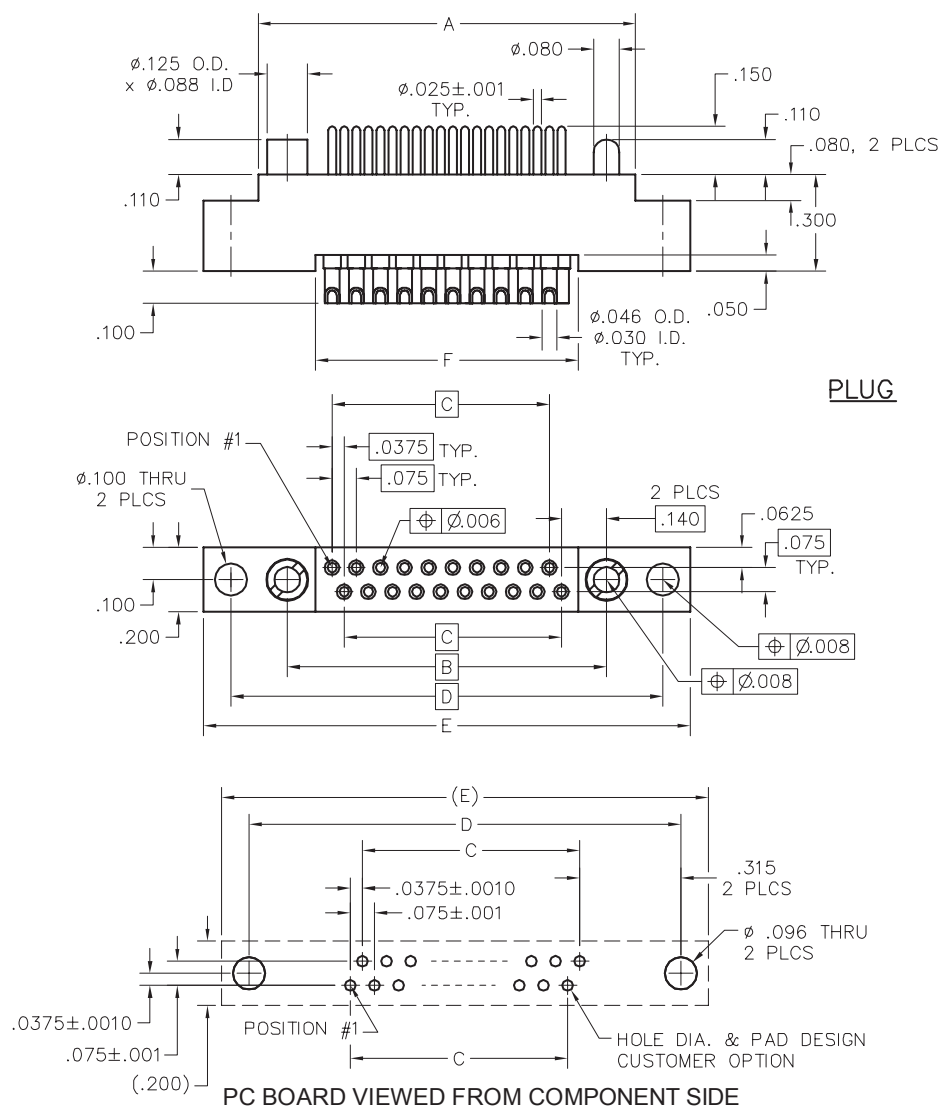
RM222 & RM242 — Two-row, straight receptacle
RM262 & RM282 — Two-row, right-angle receptacle
RA2 — Two-row, I/O receptacle

Terminations

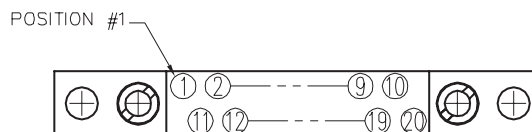


RM – Two-Row, I/O Plug

Plastic ▪ 2-Row ▪ 10-100 Contacts



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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 20 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



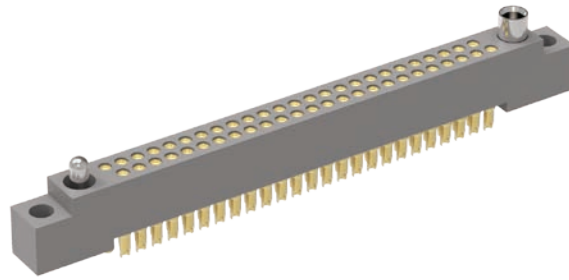
R Series

High-Density
0.075"
(1.905mm)

RM – Two-Row, I/O Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



2
Row

Sample Part Number Format: RM222-100-241-5500

SERIES	ROWS	STYLE	BODY MATERIAL	SIZE	PLATING	TERMINATION	HARDWARE	POLARIZATION
RM	2		2		1			
0.075" Plastic Rectangular Connector (Receptacle)	2 – 2-Row (10-100 contacts)	2 – Receptacle, straight with mounting ears 4 – Receptacle, straight without mounting ears	2 – Polyphenylene sulfide (PPS)	010 – 10 contacts 020 – 20 contacts 030 – 30 contacts 040 – 40 contacts 050 – 50 contacts 060 – 60 contacts 070 – 70 contacts 080 – 80 contacts 090 – 90 contacts 100 – 100 contacts	1 – Gold	24 – Solder cup 25 – Flex circuit, 0.093" x 0.017" Ø *	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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)

Notes:

- ‡ Not RoHS-compliant
- * Pre-tin is not available with flex circuit termination.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

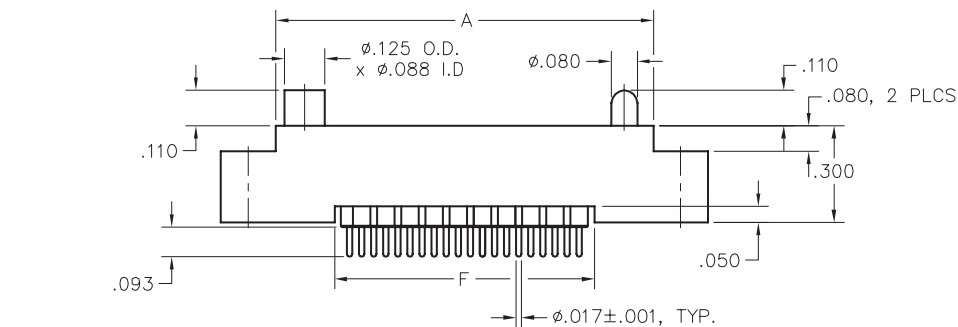
- RM212 & RM232 — Two-row, straight plug
- RM252 & RM272 — Two-row, right-angle plug
- RM212 & RM232 — Two-row, I/O plug

Terminations

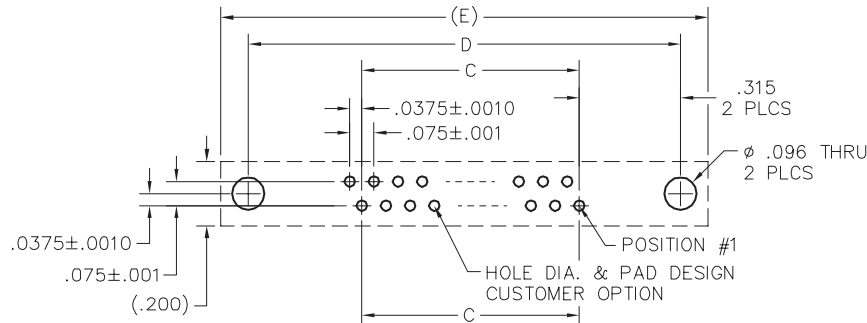
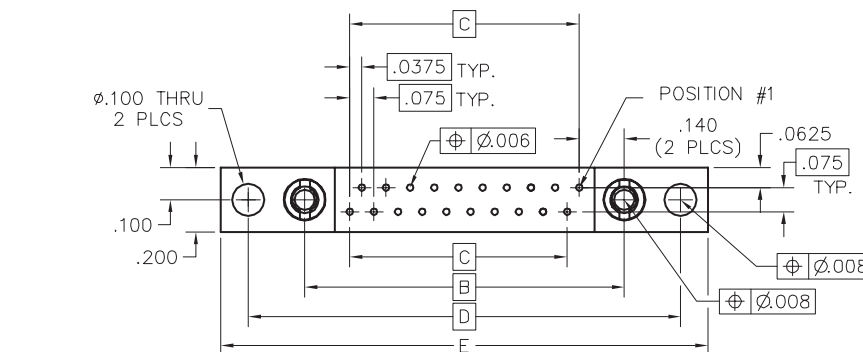


RM – Two-Row, I/O Receptacle

Plastic ▪ 2-Row ▪ 10-100 Contacts

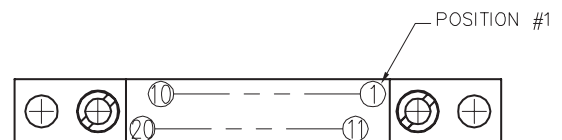


RECEPTACLE



PC BOARD VIEWED FROM COMPONENT SIDE

DIMENSIONS						
SIZE	A	B	C	D	E	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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 20 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



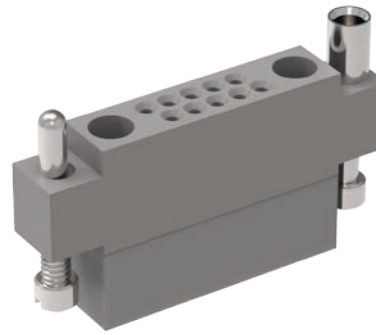
R Series

High-Density
0.075"
(1.905mm)

RM – Two-Row, I/O, Crimp-Removable Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



Sample Part Number Format: RM222-020-581-5500

SERIES	ROWS	STYLE	BODY MATERIAL	SIZE	PLATING	TERMINATION	HARDWARE	POLARIZATION
RM	2		2					
0.075" Plastic Rectangular Connector (Receptacle)	2 – 2-Row (10-100 contacts)	2 – Receptacle, straight with mounting ears 4 – Receptacle, straight without mounting ears	2 – Polyphenylene sulfide (PPS)	010 – 10 contacts 020 – 20 contacts 030 – 30 contacts 040 – 40 contacts 050 – 50 contacts 060 – 60 contacts 070 – 70 contacts 080 – 80 contacts 090 – 90 contacts 100 – 100 contacts	0 – None (Use with Termination option '00', only) 1 – Gold	00 – Contacts not supplied 57 – Crimp-removable (20-22 AWG)* 58 – Crimp-removable (24-26 AWG)* 59 – Crimp-removable (28-30 AWG)*	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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)

Notes:

- * Full compliment of crimp-removable sockets packaged with connectors, unless termination type is 000
- Crimp tool: AirBorn part number CDG4601, MIL-SPEC M22520/2-01
- Crimp positioner: AirBorn part number CDG4602 (24-26 & 28-10 AWG); CDG4603 (20-22 AWG)
- Crimp removal tool: AirBorn part number CDG8161
- Crimp contact part number on next page

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

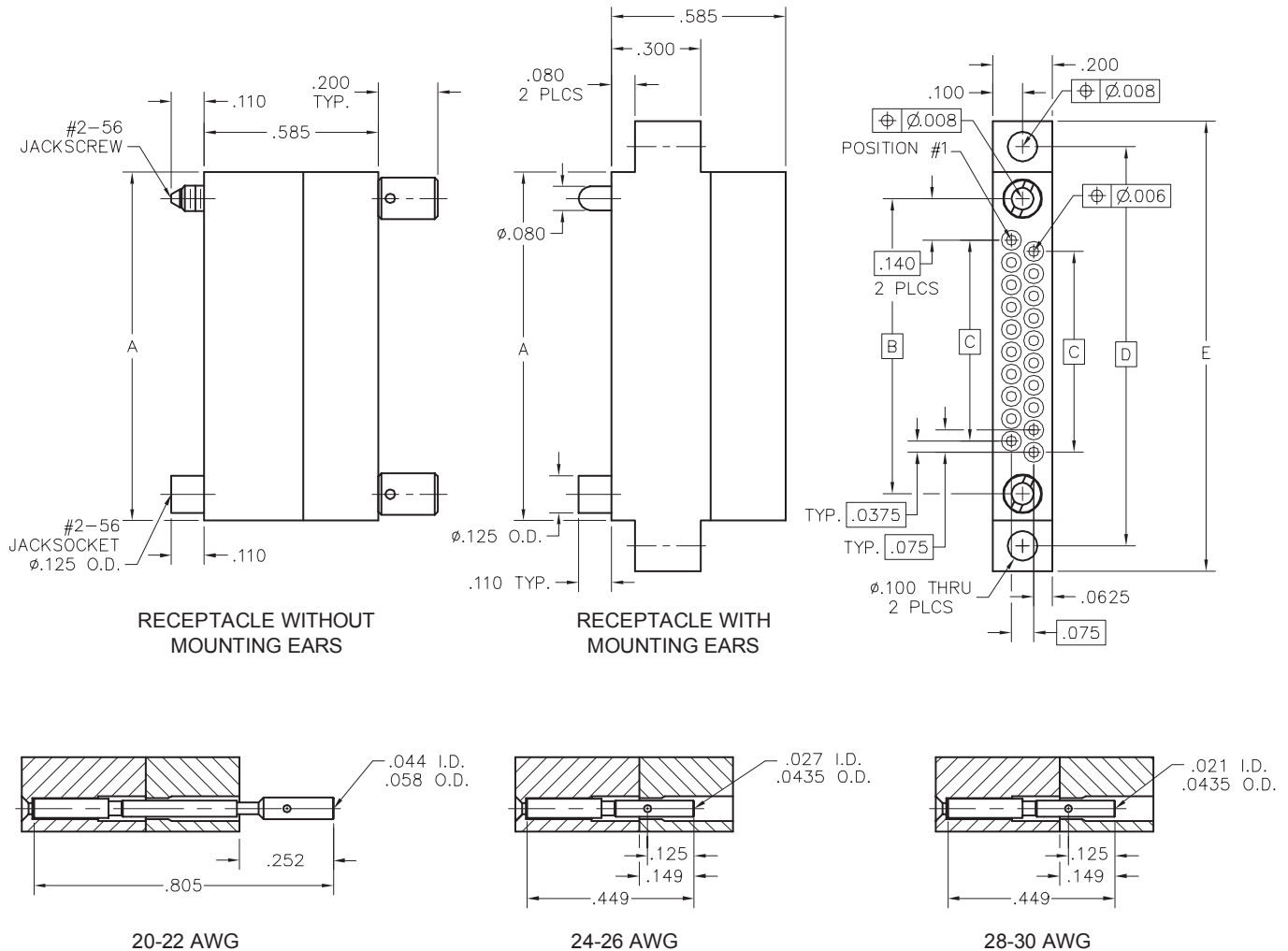
- RM212 & RM232 — Two-row, straight plug
- RM252 & RM272 — Two-row, right-angle plug
- RM212 — Two-row, I/O plug

Terminations



RM – Two-Row, I/O, Crimp-Removable Receptacle

Plastic ▪ 2-Row ▪ 10-100 Contacts



NOTE:

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

DIMENSIONS						
SIZE	A	B	C	D	E	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

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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 20 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



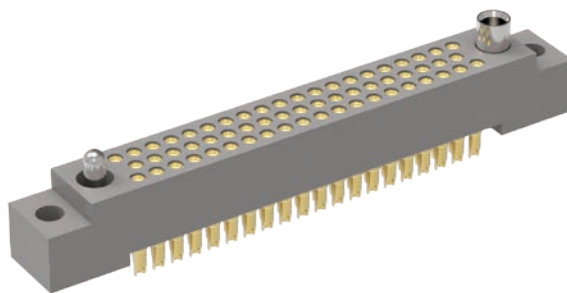
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, I/O Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



3
Row

Sample Part Number Format: RM322-152-241-5500

RM

SERIES
0.075" Plastic Rectangular Connector (Receptacle)

3

ROWS
3 – 3-Row (11-206 contacts)

2

STYLE
2 – Receptacle, straight with mounting ears
4 – Receptacle, straight without mounting ears

2

BODY MATERIAL
2 – Polyphenylene sulfide (PPS)

1

SIZE
011 – 11 contacts
023 – 23 contacts
035 – 35 contacts
047 – 47 contacts
059 – 59 contacts
071 – 71 contacts
080 – 80 contacts
092 – 92 contacts
104 – 104 contacts
122 – 122 contacts
140 – 140 contacts
152 – 152 contacts
182 – 182 contacts
206 – 206 contacts

1

PLATING
1 – Gold

TERMINATION
24 – Solder cup
25 – Flex circuit, 0.093" x 0.017" Ø*

1

HARDWARE
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 jackscrews
59 – Hex turning jackset, 0.200"
60 – Hex turning jackset reversed, 0.200"
61 – Two hex turning jackscrews, 0.200"
62 – Two hex turning jackscrews, 0.200"
64 – Turning jackset, 0.490"

POLARIZATION
00 – None
XX – See page 140 for codes
70 – Same as above, but without Loctite® (customer-keyed)

Notes:

- ‡ Not RoHS-compliant
- * Plated thru-hole is not available with flex circuit termination.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

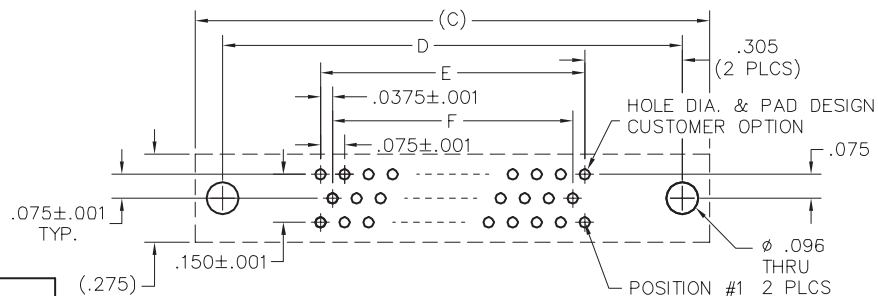
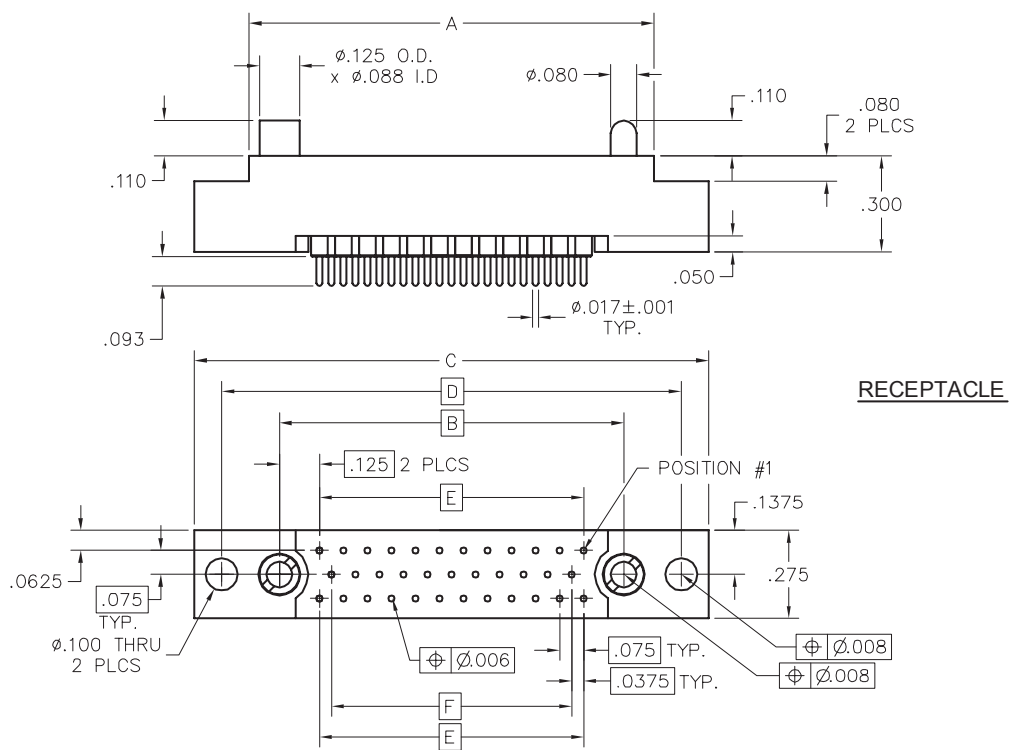
RM312 & RM332 — Three-row, straight plug
RM352 & RM372 — Three-row, right-angle plug
RA3 — Three-row, I/O plug
RM312 & RM332 — Three-row, I/O plug

Terminations

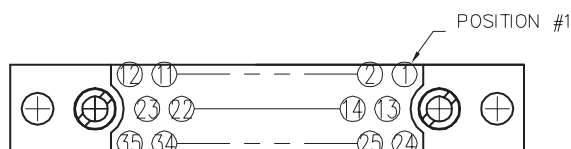


RM – Three-Row, I/O Receptacle

Plastic ▪ 3-Row ▪ 11-206 Contacts



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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



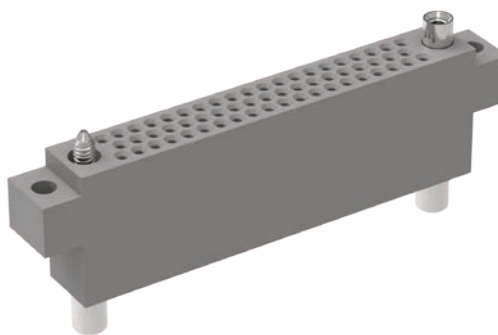
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, I/O, Crimp-Removable Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



3
Row

Sample Part Number Format: RM342-080-181-5900

SERIES	ROWS	STYLE	BODY MATERIAL	SIZE	PLATING	TERMINATION	HARDWARE	POLARIZATION
RM	3		2					
0.075" Plastic Rectangular Connector (Receptacle)	3 – 3-Row (10-100 contacts)	2 – Receptacle, straight with mounting ears 4 – Receptacle, straight without mounting ears	2 – Polyphenylene sulfide (PPS)	011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts	0 – None (Use with Termination option '00', only) 1 – Gold	00 – Contacts not supplied 57 – Crimp-removable (20-22 AWG)* 58 – Crimp-removable (24-26 AWG)* 59 – Crimp-removable (28-30 AWG)*	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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"	00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)

Notes:

- * Full compliment of crimp-removable sockets packaged with connectors, unless termination type is 000
- Crimp tool: AirBorn part number CDG4601, MIL-SPEC M22520/2-01
- Crimp positioner: AirBorn part number CDG4602 (24-26 & 28-10 AWG); CDG4603 (20-22 AWG)
- Crimp removal tool: AirBorn part number CDG8161
- Crimp contact part number on next page

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

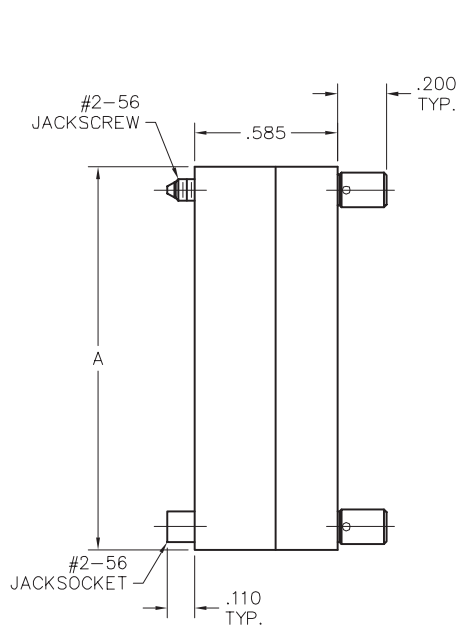
- RM312 & RM332 — Three-row, straight plug
- RM352 & RM372 — Three-row, right-angle plug
- RA3 — Three-row, I/O plug
- RM312 — Three-row, I/O plug

Terminations

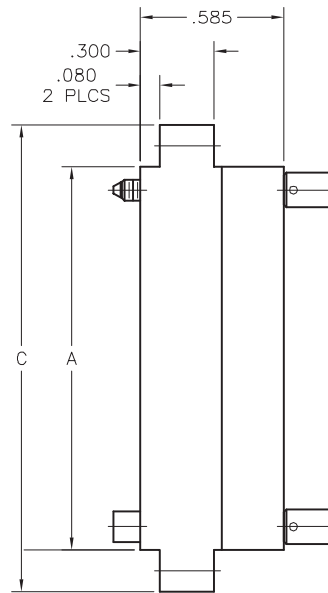


RM – Three-Row, I/O, Crimp-Removable Receptacle

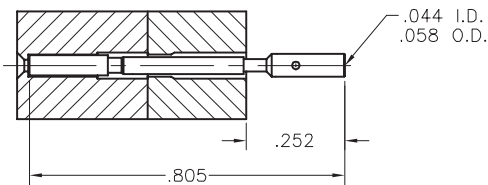
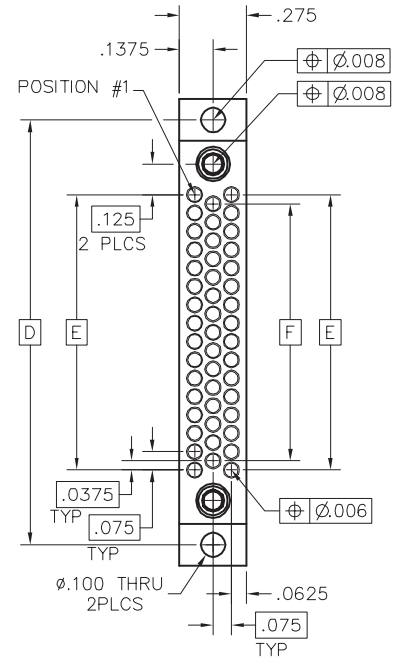
Plastic ▪ 3-Row ▪ 11-80 Contacts



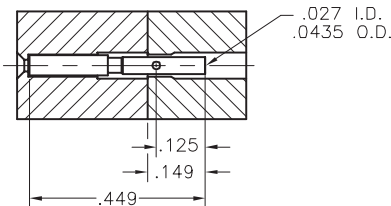
RECEPTACLE WITHOUT MOUNTING EARS



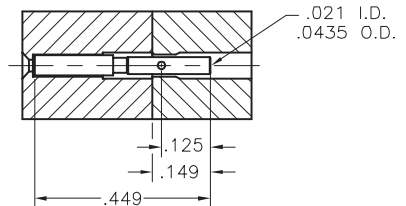
RECEPTACLE WITH MOUNTING EARS



20-22 AWG



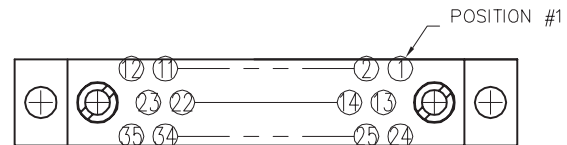
24-26 AWG



28-30 AWG

NOTE:

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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)

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

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



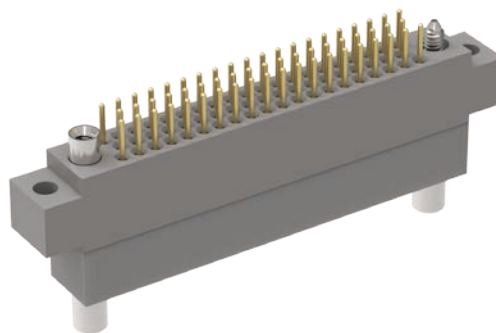
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, I/O, Crimp-Removable Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



3
Row

Sample Part Number Format: RM332-080-581-5900

SERIES	ROWS	STYLE	BODY MATERIAL	SIZE	PLATING	POLARIZATION
RM	3		2			
0.075" Plastic Rectangular Connector (Plug)	3 – 3-Row (10-100 contacts)	1 – Plug, straight with mounting ears 3 – Plug, straight without mounting ears	2 – Polyphenylene sulfide (PPS)	011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts	0 – None (Use with Termination option '00', only) 1 – Gold	00 – None XX – See page 140 for codes 70 – Same as above, but without Loctite® (customer-keyed)
				TERMINATION		HARDWARE
				00 – Contacts not supplied 17 – Crimp-removable (20-22 AWG)* 18 – Crimp-removable (24-26 AWG)* 19 – Crimp-removable (28-30 AWG)*		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 jackscrews 59 – Hex turning jackset, 0.200" 60 – Hex turning jackset reversed, 0.200" 61 – Two hex turning jackscrews, 0.200" 62 – Two hex turning jackscrews, 0.200" 64 – Turning jackset, 0.490"

Notes:

- * Full compliment of crimp-removable pins packaged with connectors, unless termination type is 000
- Crimp tool: AirBorn part number CDG4601, MIL-SPEC M22520/2-01
- Crimp positioner: AirBorn part number CDG4602 (24-26 & 28-10 AWG); CDG4603 (20-22 AWG)
- Crimp removal tool: AirBorn part number CDG8161
- Crimp contact part number on next page

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

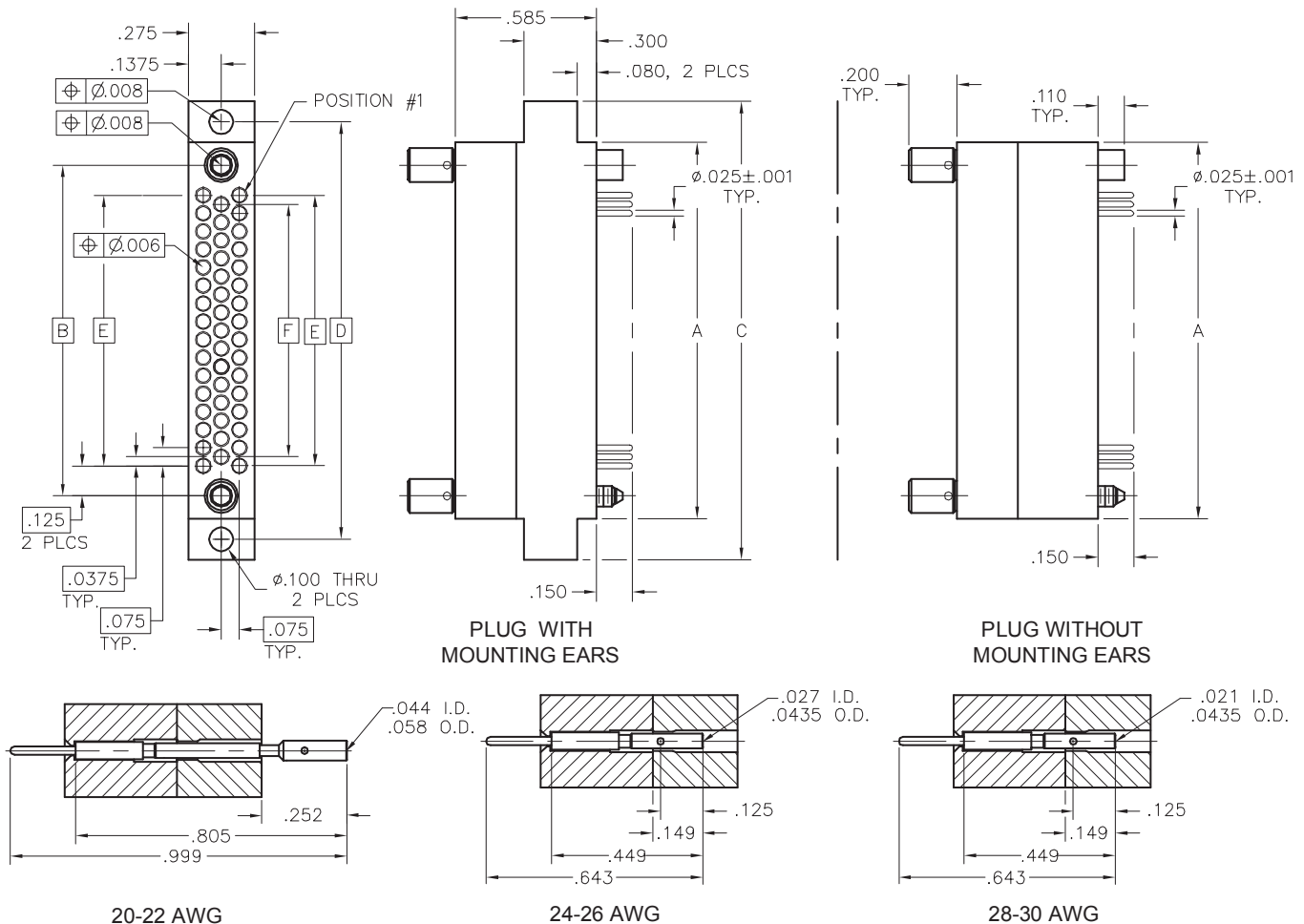
- RM322 & RM342 — Three-row, straight receptacle
- RM362 & RM382 — Three-row, right-angle receptacle
- RA3 — Three-row, I/O receptacle

Terminations



RM – Three-Row, I/O, Crimp-Removable Plug

Plastic ▪ 3-Row ▪ 11-80 Contacts

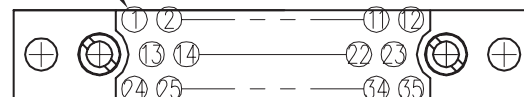


NOTE:

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

DIMENSIONS						
SIZE	A	B	C	D	E	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

POSITION #1



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



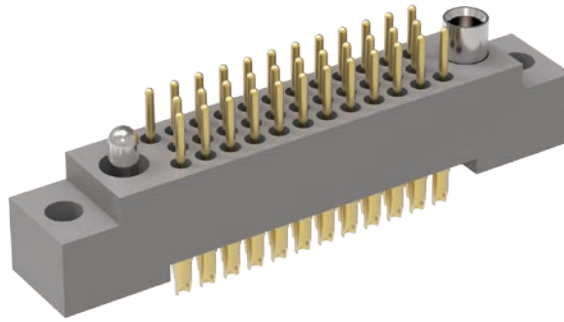
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, I/O Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



Sample Part Number Format: RM332-035-111-5500



SERIES
0.075" Plastic Rectangular Connector (Plug)

ROWS
3 – 3-Row (11-206 contacts)

STYLE
1 – Plug, straight with mounting ears
3 – Plug, straight without mounting ears

BODY MATERIAL
2 – Polyphenylene sulfide (PPS)

SIZE
011 – 11 contacts
023 – 23 contacts
035 – 35 contacts
047 – 47 contacts
059 – 59 contacts
071 – 71 contacts
080 – 80 contacts
092 – 92 contacts
104 – 104 contacts
122 – 122 contacts
140 – 140 contacts
152 – 152 contacts
182 – 182 contacts
206 – 206 contacts

PLATING
1 – Gold

TERMINATION
11 – Pin, straight, solder cup
15 – Pin, straight, flex, .093" x .017 dia

HARDWARE
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 jackscrews
59 – Hex turning jackset, 0.200"
60 – Hex turning jackset reversed, 0.200"
61 – Two hex turning jackscrews, 0.200"
62 – Two hex turning jackscrews, 0.200"
64 – Turning jackset, 0.490"

Notes:

‡ Not RoHS-compliant

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM322 & RM342 — Three-row, straight receptacle
RM362 & RM382 — Three-row, right-angle receptacle
RA3E, 3F, 3G, 3H — Three-row, I/O receptacle

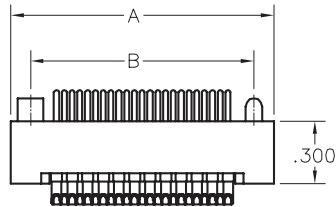
Terminations



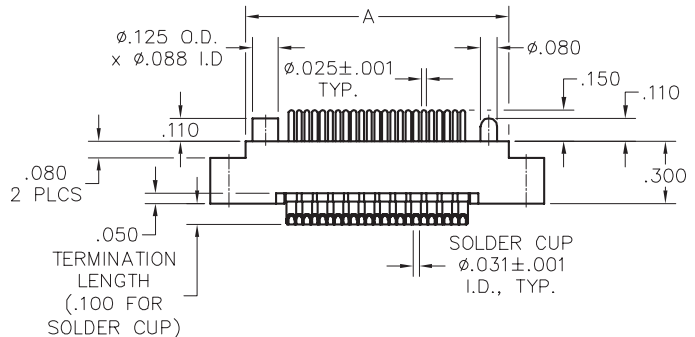


RM – Three-Row, I/O Plug

Plastic ▪ 3-Row ▪ 11-206 Contacts

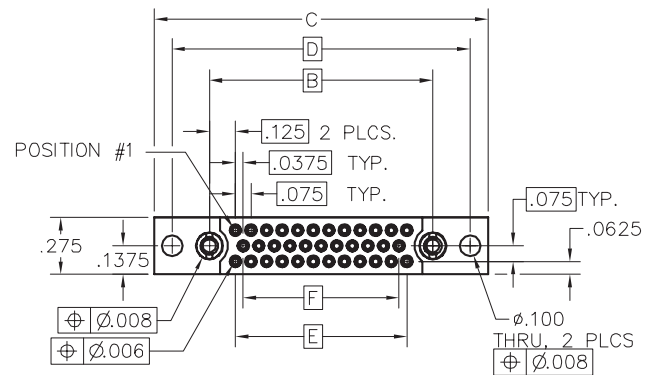


WITHOUT MOUNTING EARS

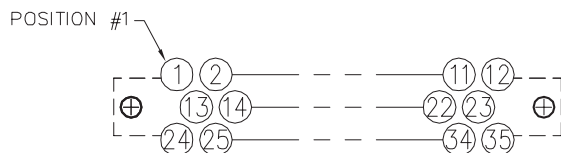


WITH MOUNTING EARS

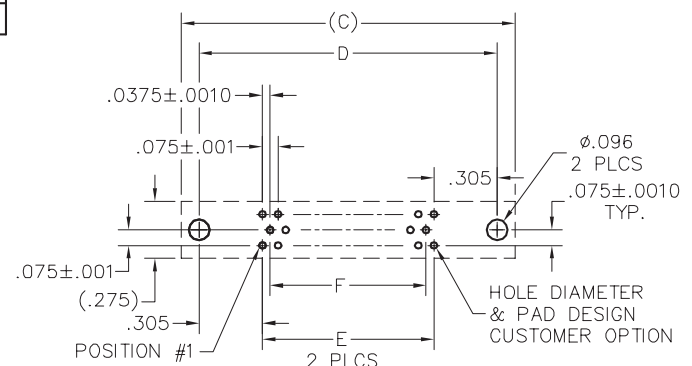
DIMENSIONS						
SIZE	A	B	C	D	E	F
11	.665	.475	1.005	.835	.225	.150
23	.965	.775	1.305	1.135	.525	.450
35	1.265	1.075	1.605	1.435	.825	.750
47	1.565	1.375	1.905	1.735	1.125	1.050
59	1.865	1.675	2.205	2.035	1.425	1.350
71	2.165	1.975	2.505	2.335	1.725	1.650
80	2.390	2.200	2.730	2.560	1.950	1.875
92	2.690	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



PIN IDENTIFICATION PATTERN
VIEWED FROM TERMINATION SIDE
(EXAMPLE: 35 POSITION CONNECTOR)



PCB LAYOUT VIEWED FROM COMPONENT SIDE

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



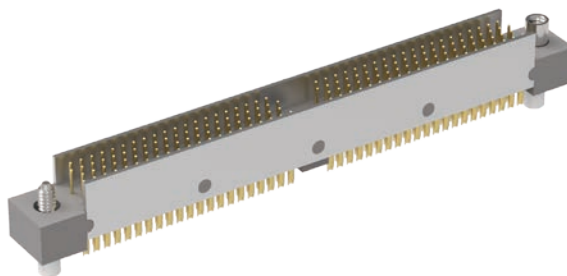
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, I/O Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



4
Row

Sample Part Number Format: RM412-164-171-9501

RM

SERIES
0.075" Plastic
Rectangular
Connector
(Plug)

4

ROWS
4 – 4-Row
(86-404
contacts)

1

STYLE
1 – Plug,
straight with
mounting
ears

2

BODY MATERIAL
2 – Polyphenylene
sulfide (PPS)

164

SIZE
086 – 86 contacts
110 – 110 contacts
164 – 164 contacts
196 – 196 contacts
204 – 204 contacts
220 – 220 contacts
250 – 250 contacts
276 – 276 contacts
300 – 300 contacts
404 – 404 contacts

171

PLATING
1 – Gold

TERMINATION
17 – Solder cup
40 – Flex circuit, 0.093" x 0.017" Ø*

9501

POLARIZATION
00 – None
XX – See page 141 for codes

HARDWARE
0256 – None
84 – Fixed jackset, reversed, #2-56 x 0.320"
90 – Guide pins, full round, #2-56 x 0.320"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
94 – Fixed jackset, #2-56 x 0.320"
95 – Guide pins, polarized, #2-56 x 0.320" **
9501-9536 – Guide pins, polarized,
#2-56 x 0.320"
99 – Guide pins, universal, #2-56 x 0.320"

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

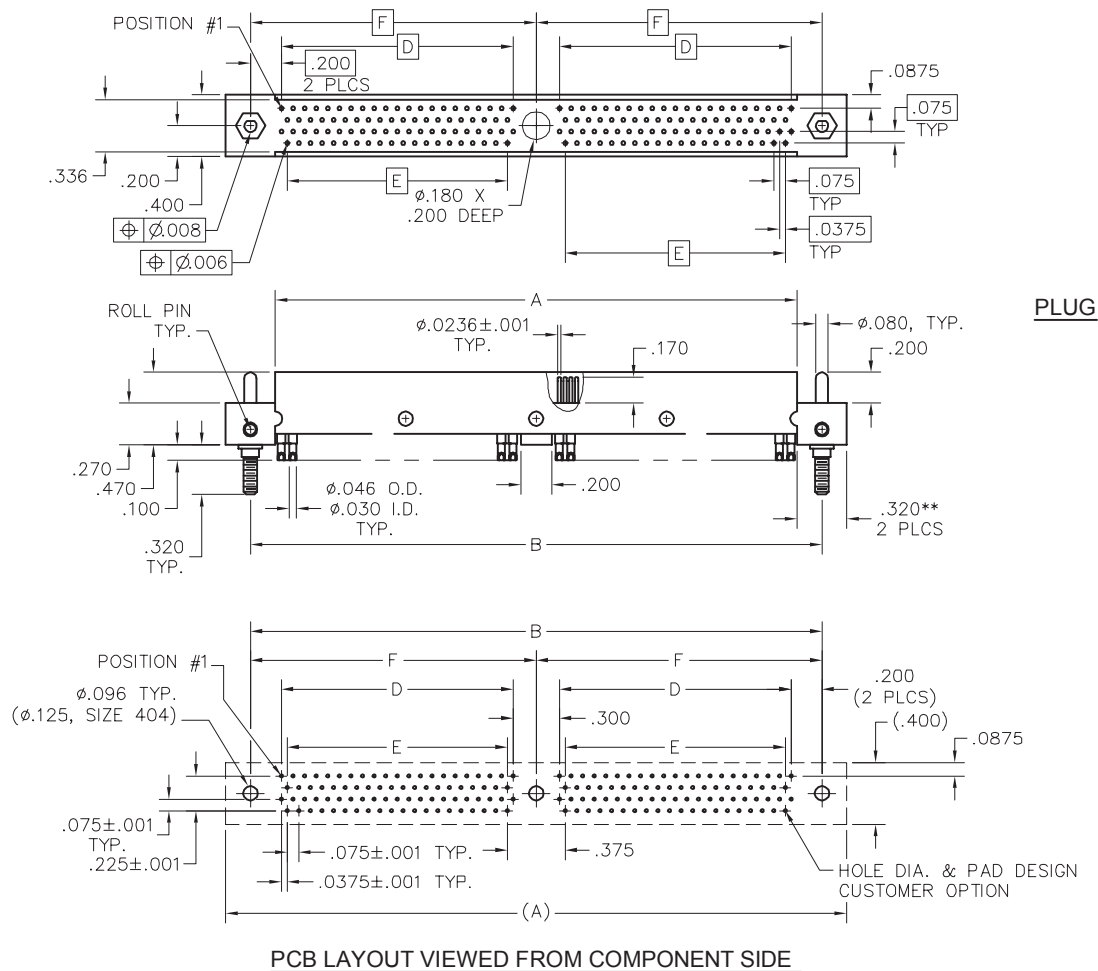
RM422 — Four-row, straight receptacle
RM462 — Four-row, right-angle receptacle
RM422 — Four-row, I/O receptacle

Terminations



RM – Four-Row, I/O Plug

Plastic ▪ 4-Row ▪ 86-404 Contacts



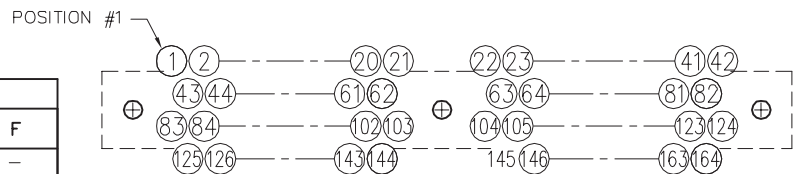
PCB LAYOUT VIEWED FROM COMPONENT SIDE

NOTES:

* = Single section, no center mounting hole

** = 0.280" for 86 position

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



PIN IDENTIFICATION PATTERN
(EXAMPLE: 164 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



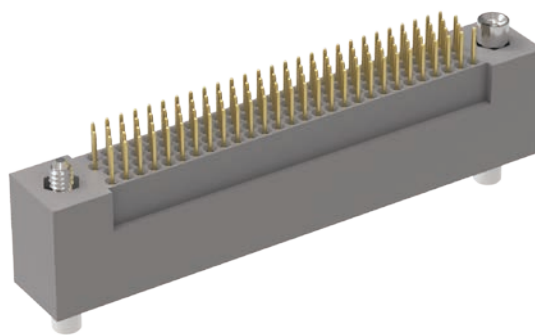
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, I/O, Crimp-Removable Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



4
Row

Sample Part Number Format: RM412-110-271-9200



SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

4 – 4-Row (86-404 contacts)

STYLE

1 – Plug, straight without mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

086 – 86 contacts
110 – 110 contacts

PLATING

0 – None (Use with Termination option "00", only)
1 – Gold

POLARIZATION

00 – None
XX – See page 141 for codes

TERMINATION

00 – Contacts not supplied
26 – Crimp-removable (20-22 AWG)*
27 – Crimp-removable (24-26 AWG)*
28 – Crimp-removable (28-30 AWG)*

HARDWARE

0256 – None
90 – Guide pins, full round
92 – Hex turning jackset, 0.200"
93 – Fixed jackset
95 – Guide pins, polarized**
9501-9536 – Guide pins, polarized
99 – Guide pins, universal

Notes:

- ‡ Not RoHS-compliant
- * Full complement of crimp-removable sockets packaged with connectors, unless termination type is 000
- ** This hardware option is packaged unassembled (uninstalled)
- Crimp tool: AirBorn part number CDG4601, MIL-SPEC M22520/2-01
- Crimp positioner: AirBorn part number CDG4602 (24-26 & 28-10 AWG); CDG4603 (20-22 AWG)
- Crimp removal tool: AirBorn part number CDG8161
- Crimp contact part number on next page

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

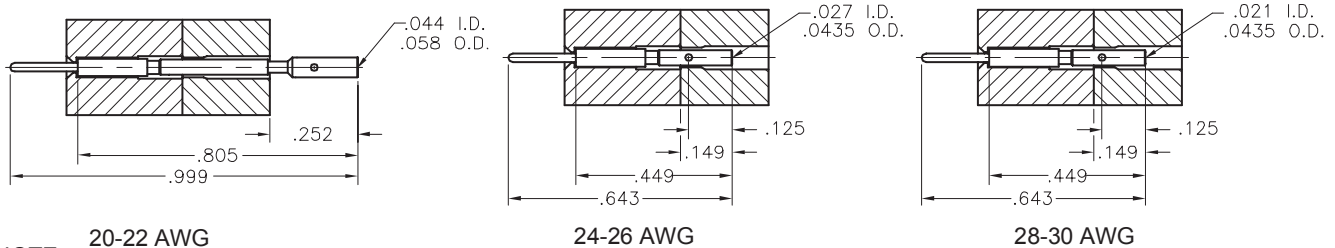
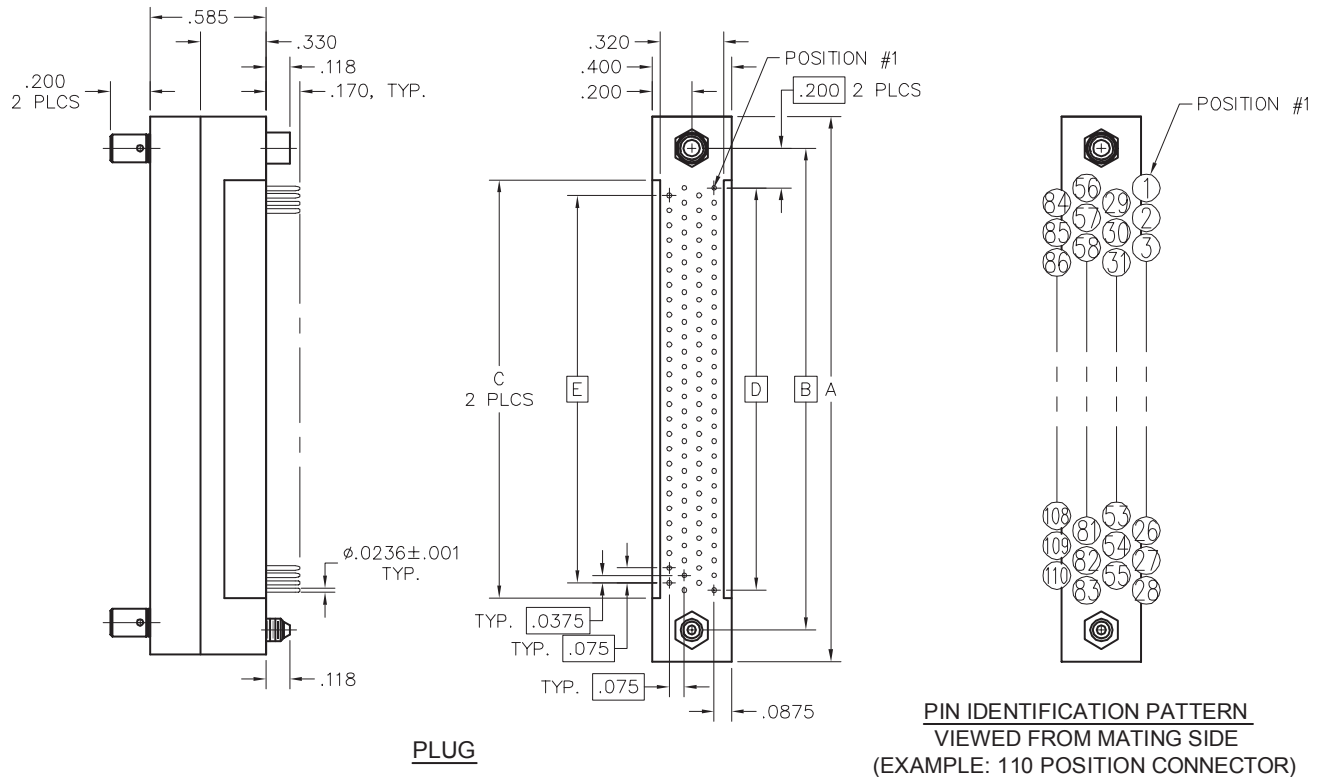
- RM422 — Four-row, straight receptacle
- RM462 — Four-row, right-angle receptacle
- RM422 — Four-row, I/O receptacle

Terminations



RM – Four-Row, I/O, Crimp-Removable Plug

Plastic ▪ 4-Row ▪ 86 & 110 Contacts



NOTE:

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

CRIMP REMOVABLE CONTACTS	
SIZE	PART NUMBER
20-22 AWG	RM400-000-261-0000
24-26 AWG	RM400-000-271-0000
28-30 AWG	RM400-000-281-0000

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



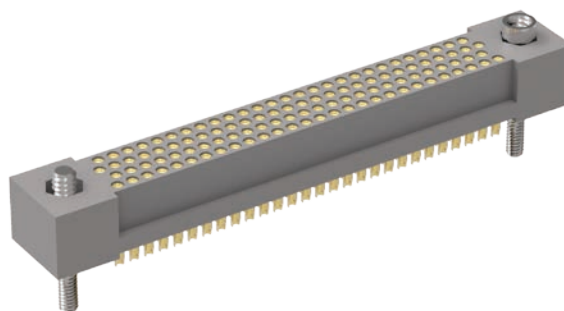
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, I/O Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



4
Row

Sample Part Number Format: RM422-164-761-9601

RM

SERIES
0.075" Plastic
Rectangular
Connector
(Receptacle)

4

ROWS
4 – 4-Row
(86-404
contacts)

2

STYLE
2 – Receptacle,
straight
without
mounting
ears

2

BODY MATERIAL
2 – Polyphenylene
sulfide (PPS)

164

SIZE
086 – 86 contacts
110 – 110 contacts
164 – 164 contacts
196 – 196 contacts
204 – 204 contacts
220 – 220 contacts
250 – 250 contacts
276 – 276 contacts
300 – 300 contacts
404 – 404 contacts

1

PLATING
1 – Gold

TERMINATION
76 – Solder cup
77 – Flex circuit, 0.093" x 0.017" Ø*

9601

POLARIZATION
00 – None
XX – See page 141 for codes

HARDWARE
0256 – None
84 – Fixed jackset, reversed, #2-56 x 0.320"
91 – Guide sockets, full round, #2-56 x 0.247"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
94 – Fixed jackset, #2-56 x 0.320"
96 – Guide sockets, polarized, #2-56 x 0.320" **
9601-9636 – Guide sockets, polarized,
#2-56 x 0.320"
97 – Guide sockets, polarized, #2-56 x 0.247" **
9701-9736 – Guide sockets, polarized,
#2-56 x 0.247"
98 – Guide sockets, universal, #2-56 x 0.247"

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM412 — Four-row, straight plug
RM452 — Four-row, right-angle plug
RM412 — Four-row, I/O plug

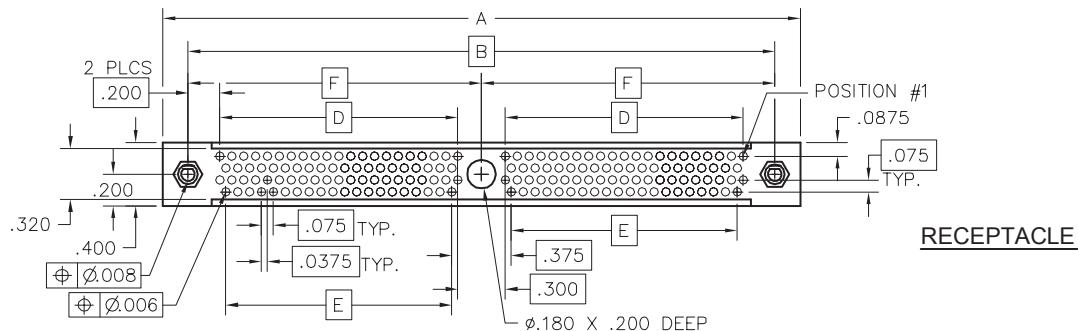
Terminations



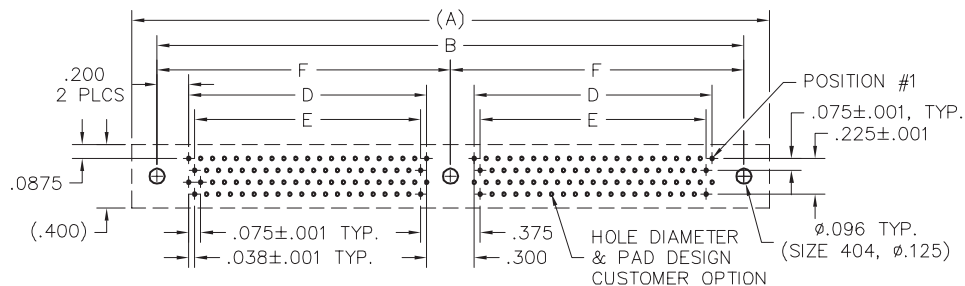
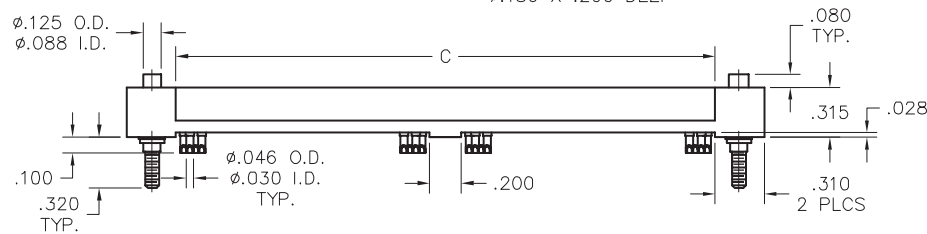


RM – Four-Row, I/O Receptacle

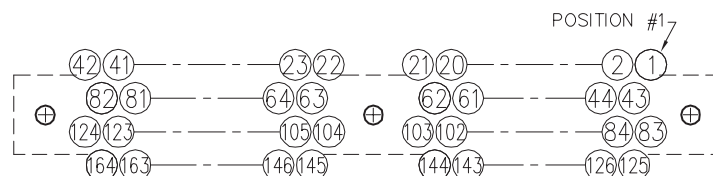
Plastic ▪ 4-Row ▪ 86-404 Contacts



RECEPTACLE



PCB LAYOUT VIEW
FROM
COMPONENT SIDE



PCB PIN IDENTIFICATION
PATTERN
(EXAMPLE: 164 POSITION
CONNECTOR)

NOTES:

* = Single section, no center mounting hole

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



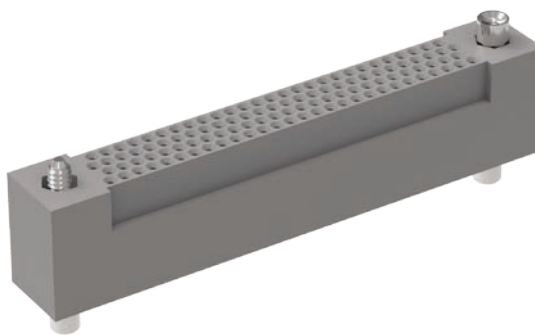
R Series

High-Density
0.075"
(1.905mm)

RM – Four-Row, I/O Crimp-Removable Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



Sample Part Number Format: RM422-110-581-9200



SERIES
0.075" Plastic
Rectangular
Connector
(Receptacle)

ROWS
4 – 4-Row
(86-404
contacts)

STYLE
2 – Receptacle,
straight
without
mounting
ears

BODY MATERIAL
2 – Polyphenylene
sulfide (PPS)

SIZE
086 – 86 contacts
110 – 110 contacts

PLATING
0 – None
(Use with Termination
option "00", only)
1 – Gold

POLARIZATION
00 – None
XX – See page 141 for codes

TERMINATION
00 – Contacts not supplied
57 – Crimp-removable (20-22 AWG)*
58 – Crimp-removable (24-26 AWG)*
59 – Crimp-removable (28-30 AWG)*

HARDWARE
0256 – None
91 – Guide sockets, full round
92 – Hex turning jackset, 0.200"
96 – Guide sockets, polarized**
9601-9636 – Guide sockets, polarized
98 – Guide sockets, universal

Notes:

- ‡ Not RoHS-compliant
- * Full complement of crimp-removable sockets packaged with connectors, unless termination type is 000
- ** This hardware option is packaged unassembled (uninstalled)
 - Crimp tool: AirBorn part number CDG4601, MIL-SPEC M22520/2-01
 - Crimp positioner: AirBorn part number CDG4602 (24-26 & 28-10 AWG); CDG4603 (20-22 AWG)
 - Crimp removal tool: AirBorn part number CDG8161
 - Crimp contact part number on next page

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

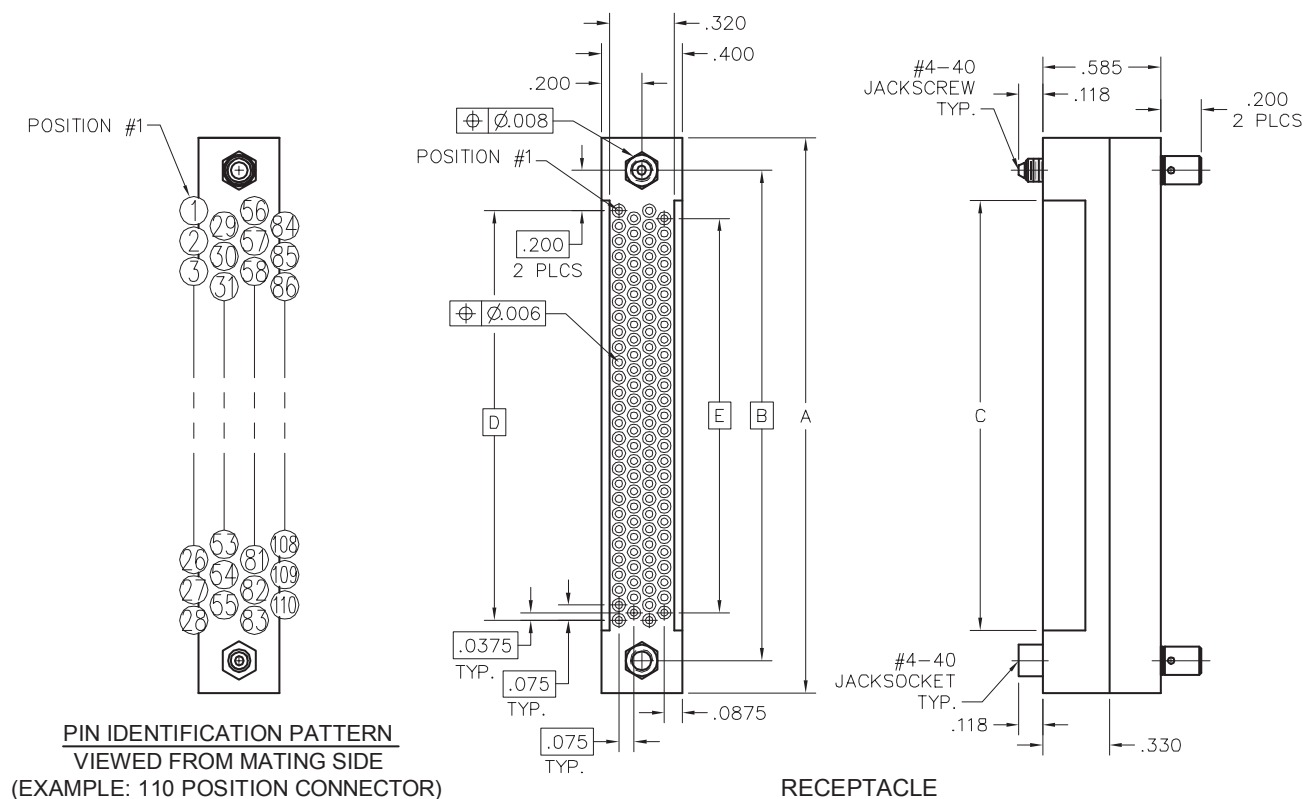
- RM412 — Four-row, straight plug
- RM452 — Four-row, right-angle plug
- RM412 — Four-row, I/O plug

Terminations



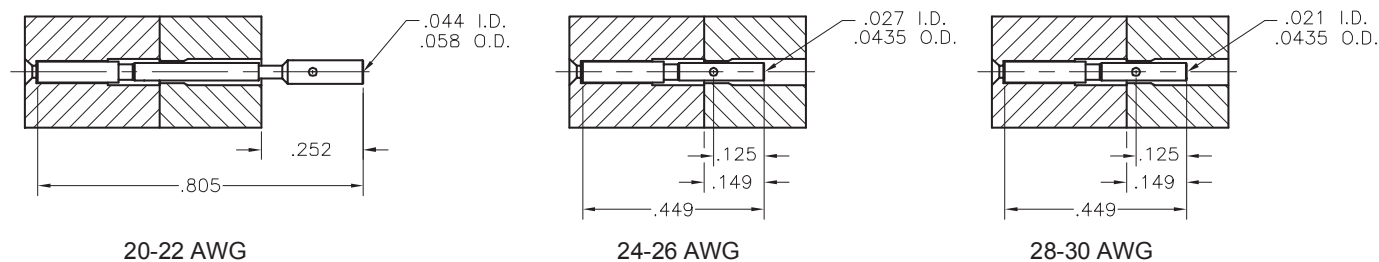
RM – Four-Row, I/O Crimp-Removable Receptacle

Plastic ▪ 4-Row ▪ 86 & 110 Contacts



NOTES:

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	RM400-000-571-0000
24-26 AWG	RM400-000-581-0000
28-30 AWG	RM400-000-591-0000

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



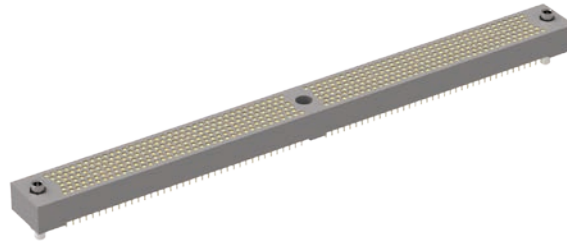
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, I/O Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



6
Row

Sample Part Number Format: RM612-448-171-9501

RM	6	1	2	-	-	1	-		
SERIES 0.075" Plastic Rectangular Connector (Plug)	ROWS 6 – 6-Row (448 or 604 contacts)	STYLE 1 – Plug, straight with mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 448 – 448 contacts 604 – 604 contacts	TERMINATION 17 – Solder cup 40 – Flex circuit, 0.093" x 0.017" Ø*	PLATING 1 – Gold	HARDWARE 0256 – None 84 – Fixed jackset, reversed, #2-56 x 0.320" 90 – Guide pins, full round, #2-56 x 0.320" 92 – Hex turning jackset, 0.200" 93 – Fixed jackset, #2-56 x 0.247" 94 – Fixed jackset, #2-56 x 0.320" 95 – Guide pins, polarized, #2-56 x 0.320" ** 9501-9536 – Guide pins, polarized, #2-56 x 0.320" 99 – Guide pins, universal, #2-56 x 0.320"	POLARIZATION 00 – None XX – See page 141 for codes	

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM622 — Six-row, straight receptacle
RM662 — Six-row, right-angle receptacle
RM622 — Six-row, I/O receptacle

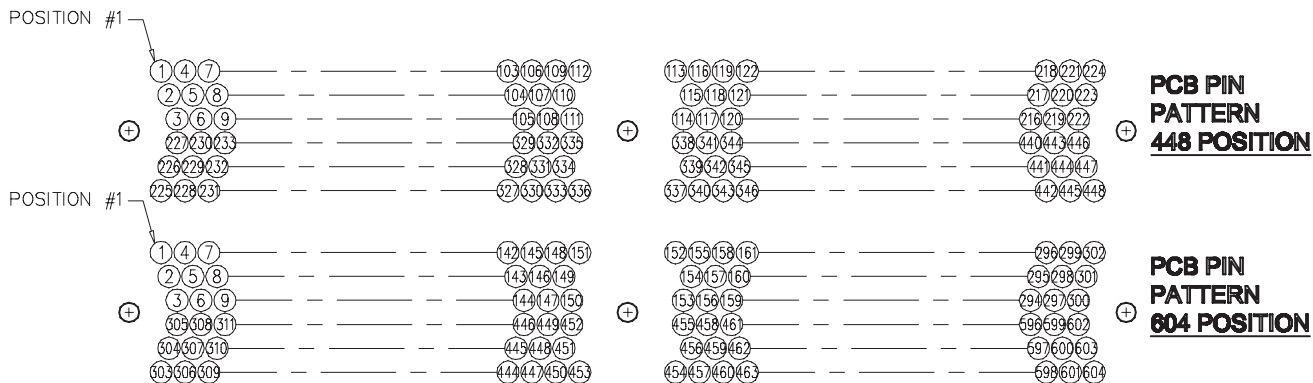
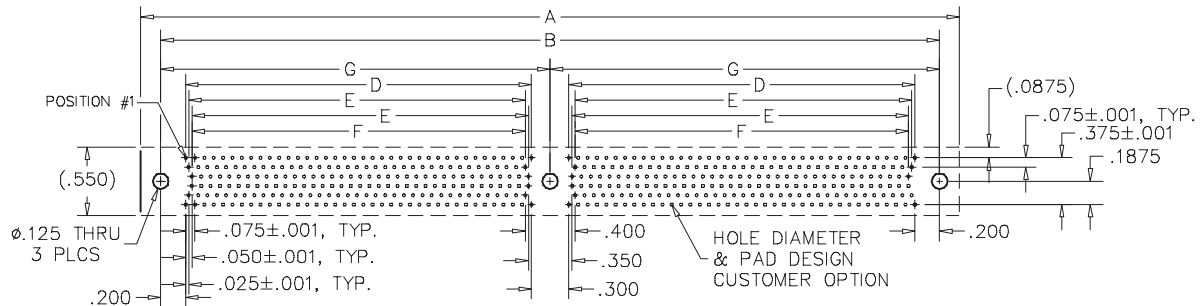
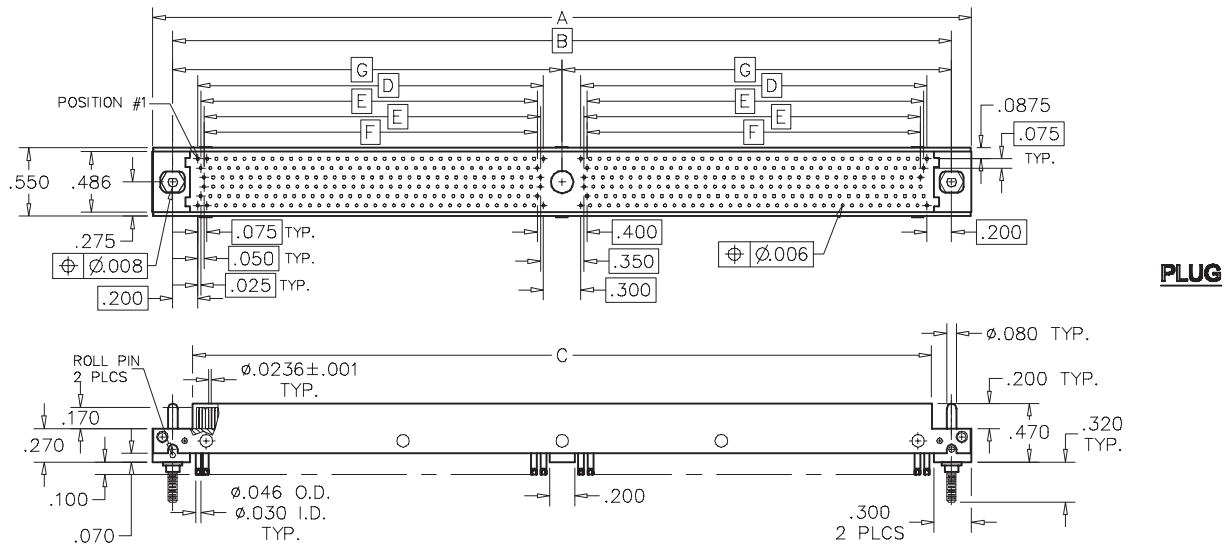
Terminations





RM – Six-Row, I/O Plug

Plastic ▪ 6-Row ▪ 448 & 604 Contacts



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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



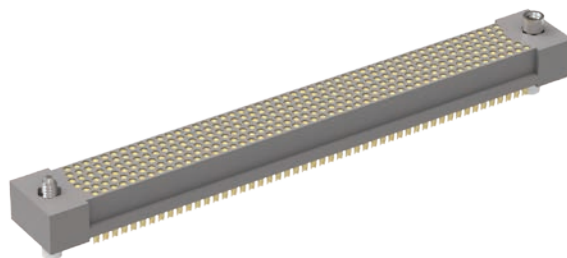
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, I/O Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



6
Row

Sample Part Number Format: RM622-448-761-9601

RM	6	2	2	-	-	1	-		
SERIES 0.075" Plastic Rectangular Connector (Receptacle)	ROWS 6 – 6-Row (448 & 604 contacts)	STYLE 2 – Receptacle, straight with mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 448 – 448 contacts 604 – 604 contacts		PLATING 1 – Gold		TERMINATION 76 – Solder cup 77 – Flex circuit, 0.093" x 0.017" Ø*	HARDWARE 0256 – None 91 – Guide sockets, full round, #2-56 x 0.247" 92 – Hex turning jacket, 0.200" 93 – Fixed jacket, #2-56 x 0.247" 96 – Guide sockets, polarized, #2-56 x 0.320" ** 9601-9636 – Guide sockets, polarized, #2-56 x 0.320" ** 97 – Guide sockets, polarized, #2-56 x 0.247" ** 9701-9736 – Guide sockets, polarized, #2-56 x 0.247" 98 – Guide sockets, universal, #2-56 x 0.247"
									POLARIZATION 00 – None XX – See page 141 for codes

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM612 — Six-row, straight plug
RM652 — Six-row, right-angle plug
RM612 — Six-row, I/O plug

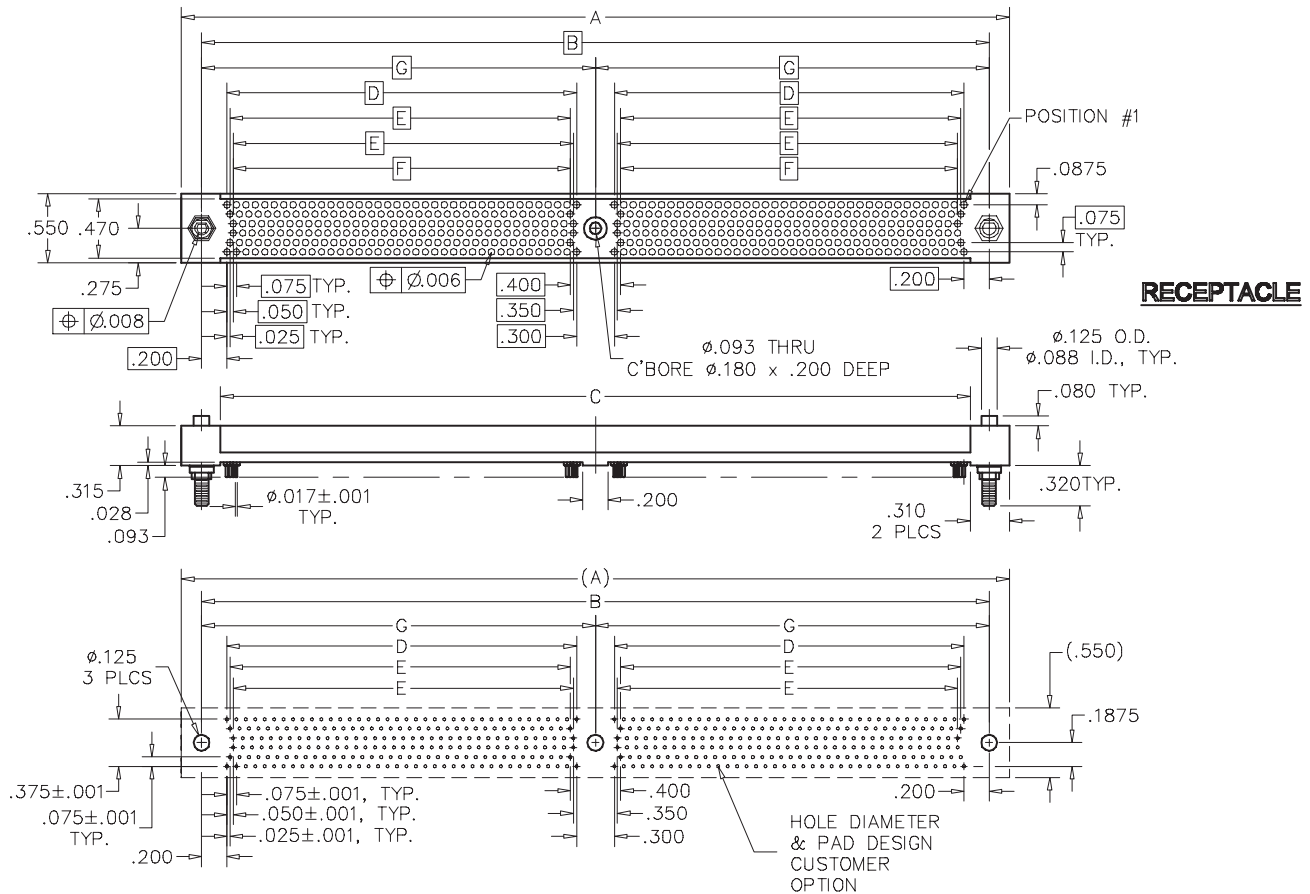
Terminations



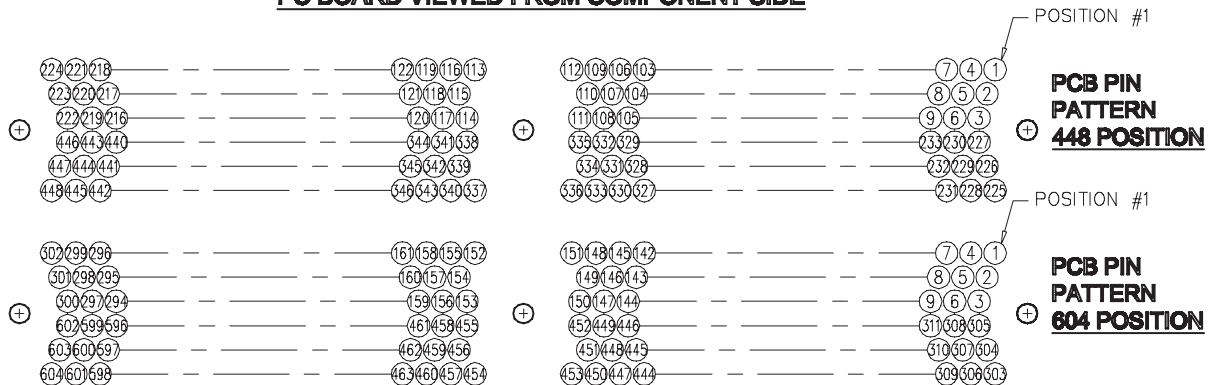


RM – Six-Row, I/O Receptacle

Plastic ▪ 6-Row ▪ 448 & 604 Contacts



PC BOARD VIEWED FROM COMPONENT SIDE



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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



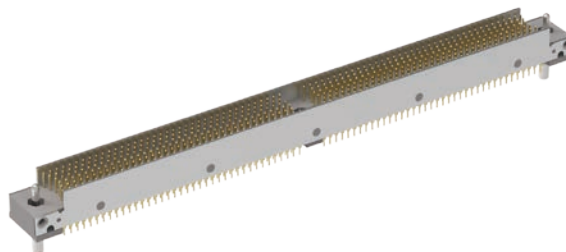
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, I/O Plug

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



6
Row

Sample Part Number Format: RM632-252-171-9501



SERIES

0.075" Plastic Rectangular Connector (Plug)

ROWS

6 – 6-Row (162-402 contacts)

STYLE

3 – Plug, straight with mounting ears

BODY MATERIAL

2 – Polyphenylene sulfide (PPS)

SIZE

162 – 162 contacts
204 – 204 contacts
252 – 252 contacts
300 – 300 contacts
360 – 360 contacts
402 – 402 contacts

PLATING

1 – Gold

TERMINATION

17 – Solder cup
40 – Flex circuit, 0.093" x 0.017" Ø*

POLARIZATION

00 – None
XX – See page 141 for codes

HARDWARE

0256 – None
84 – Fixed jackset, reversed, #2-56 x 0.320"
90 – Guide pins, full round, #2-56 x 0.320"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
94 – Fixed jackset, #2-56 x 0.320"
95 – Guide pins, polarized, #2-56 x 0.320" **
9501-9536 – Guide pins, polarized, #2-56 x 0.320"
99 – Guide pins, universal, #2-56 x 0.320"

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM622 — Six-row, straight receptacle

RM682 — Six-row, right-angle receptacle

RM622 — Six-row, I/O receptacle

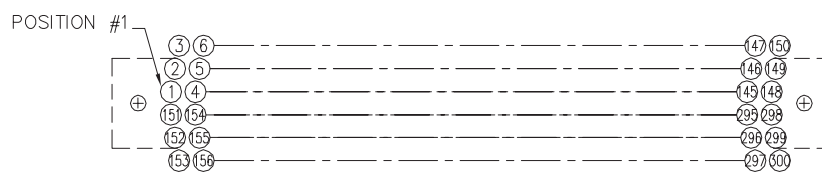
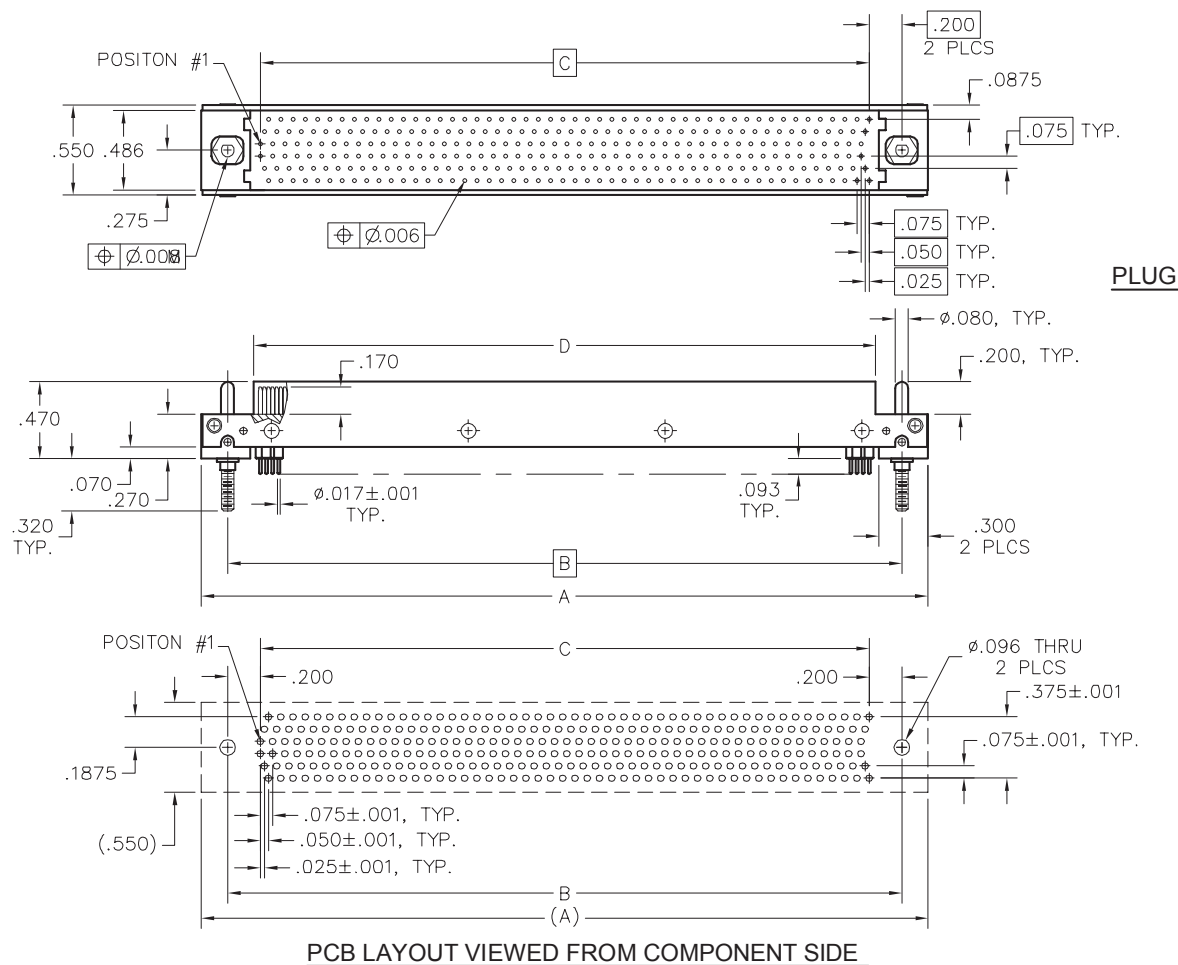
Terminations





RM – Six-Row, I/O Plug

Plastic ▪ 6-Row ▪ 162-402 Contacts



PIN IDENTIFICATION PATTERN
VIEWED FROM MATING FACE
(EXAMPLE: 300 POSITION CONNECTOR)

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



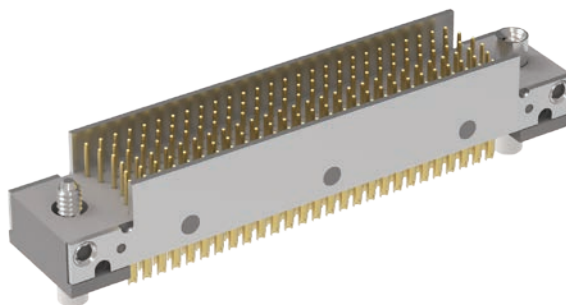
R Series

High-Density
0.075"
(1.905mm)

RM – Six-Row, I/O Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



6
Row

Sample Part Number Format: RM642-252-761-9601



SERIES
0.075" Plastic
Rectangular
Connector
(Receptacle)

ROWS
6 – 6-Row
(162-402
contacts)

STYLE
4 – Receptacle,
straight with
mounting
ears

BODY MATERIAL
2 – Polyphenylene
sulfide (PPS)

SIZE
162 – 162 contacts
204 – 204 contacts
252 – 252 contacts
300 – 300 contacts
360 – 360 contacts
402 – 402 contacts

PLATING
1 – Gold

TERMINATION
76 – Solder cup
77 – Flex circuit, 0.093" x 0.017" Ø*

POLARIZATION
00 – None
XX – See page 141 for codes

HARDWARE
0256 – None
84 – Fixed jackset, reversed, #2-56 x 0.320"
91 – Guide sockets, full round, #2-56 x 0.247"
92 – Hex turning jackset, 0.200"
93 – Fixed jackset, #2-56 x 0.247"
94 – Fixed jackset, #2-56 x 0.320"
96 – Guide sockets, polarized, #2-56 x 0.320" **
9601-9636 – Guide sockets, polarized,
#2-56 x 0.320"
97 – Guide sockets, polarized, #2-56 x 0.247" **
9701-9736 – Guide sockets, polarized,
#2-56 x 0.247"
98 – Guide sockets, universal, #2-56 x 0.247"

Notes:

‡ Not RoHS-compliant

** This hardware option is packaged unassembled (uninstalled)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RM632 — Six-row, straight plug
RM672 — Six-row, right-angle plug
RM632 — Six-row, I/O plug

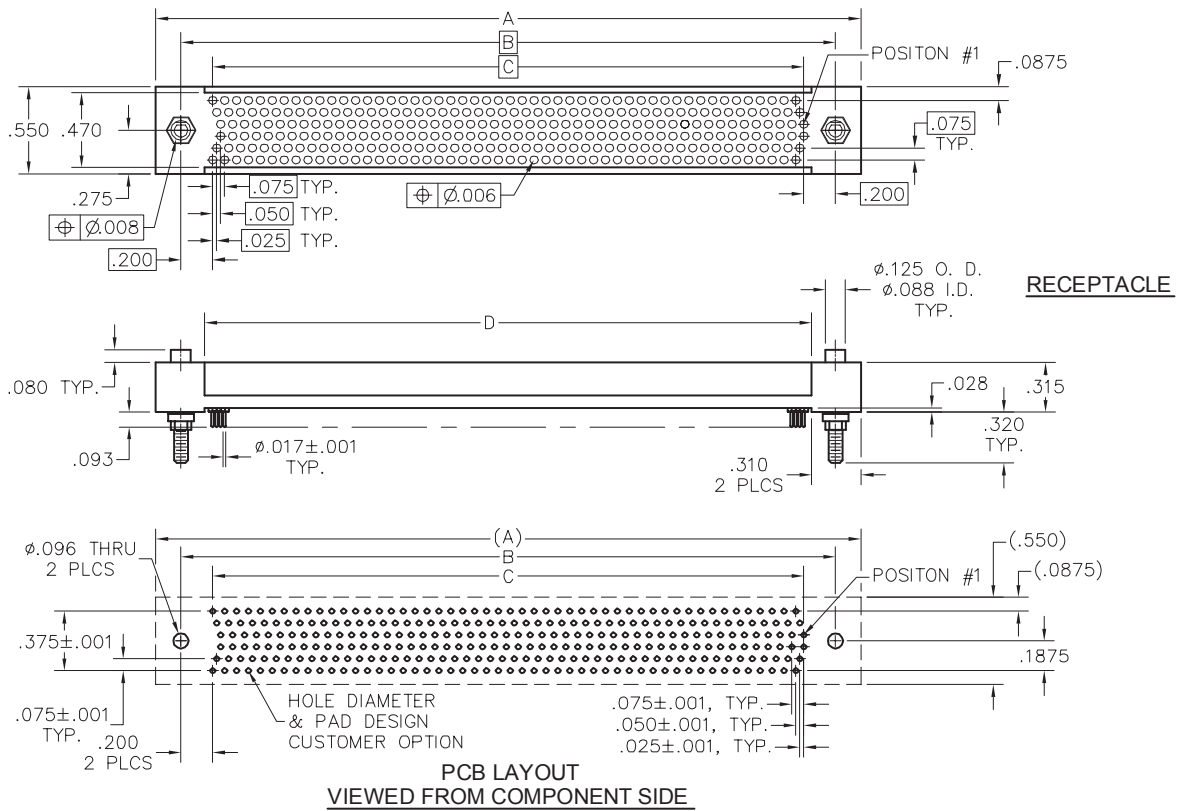
Terminations



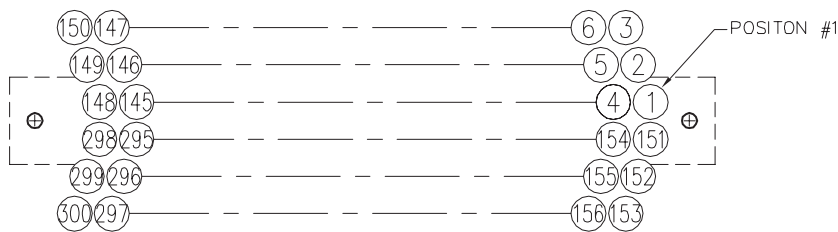


RM – Six-Row, I/O Receptacle

Plastic ▪ 6-Row ▪ 162-402 Contacts



PIN IDENTIFICATION PATTERN
(EXAMPLE: 300 POSITION CONNECTOR)



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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



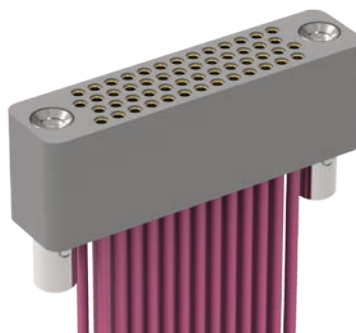
RC Series

Stackable
0.075"
(1.905mm)

RC4B2 – Four-Row, I/O, Stackable Receptacle

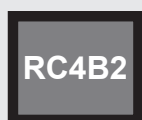
Contact Spacing: 0.075" (1.91 mm)

A full profile bodied receptacle cable connector for use at the bottom of an RC board stack application.



4
Row

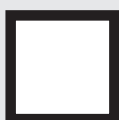
Sample Part Number Format: RC4B2-052-281-62ED



SERIES
Stackable
Compliant
Full-Profile
4 Rows
0.075" Spacing
Bottom-of-Stack
Cable Receptacle



CONFIGURATION
028 – 4 Rows/7 Columns
052 – 4 Rows/13 Columns
076 – 4 Rows/19 Columns
100 – 4 Rows/25 Columns
128 – 4 Rows/32 Columns
152 – 4 Rows/38 Columns



CONTACT
28 – Socket, crimp, 26-24 AWG
29 – Socket, crimp, 30-28 AWG



PLATING
1 – 50 μ " Au
3 – 30 μ " Au



HARDWARE
00 – None
58 – Guide socket, non-polarized
62 – Jacksocket, hex, turning



TYPE
00 – None
XX – See Wire Codes
on page 125



VARIATION
Blank – None
XXX – Consult factory

Notes:

Mated Height: Connector body height is 0.475" and is designed to mount flush to the board bottom of the mating connector.

The RC4B2 connector is designed to mate with an RC422 connector using contact option -21 (0.270" long) and -39MT hardware. This contact length and hardware combination assures proper connector mating when using boards having a thickness of 0.058"-0.125".

When guide hardware is required on the RC4B2 connector, use hardware option -3900 on the mating connector.

When jacksocket hardware is required on the RC4B2 connector, use hardware option -39MT on the mating connector.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RC422 — Four-row, straight receptacle
RC442 — Four-row, straight receptacle

Terminations



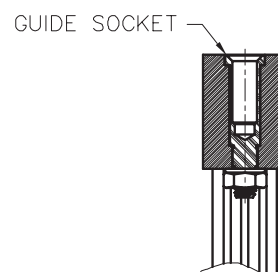
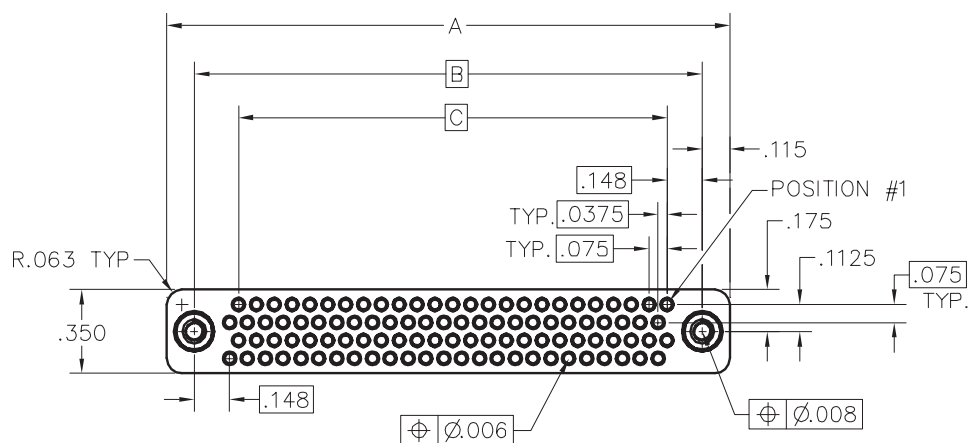
RC4B2 – Four-Row, I/O, Stackable Receptacle

Plastic ▪ 4-Row ▪ 28-152 Contacts

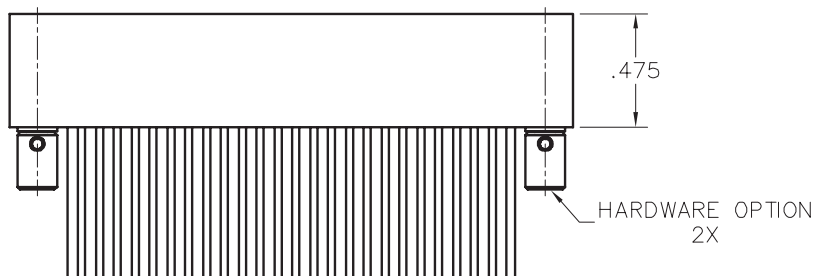


PIN IDENTIFICATION PATTERN
(EXAMPLE: 52 POSITION CONNECTOR)

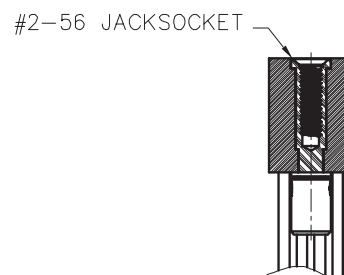
DIMENSIONS			
SIZE	A	B	C
28	1.014	.784	.450
52	1.464	1.234	.900
76	1.914	1.684	1.350
100	2.364	2.134	1.800
128	2.889	2.659	2.325
152	3.339	3.109	2.775



HARDWARE STYLE
58



RECEPTACLE

HARDWARE STYLE
62

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



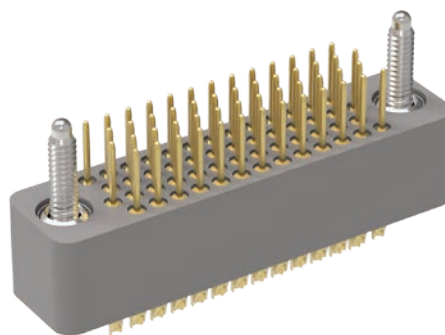
RC Series

Stackable
0.075"
(1.905mm)

RC4 – Four-Row, I/O, Press-Fit, Cable-Mate Plug

Contact Spacing: 0.075" (1.91 mm)

RC-Series rugged & reliable I/O connectors are available with crimp-removable, solder-cup or single-layer flex termination options.



Sample Part Number Format: RC4C2-100-111-61CB



SERIES
0.075" Plastic
Press-Fit,
Stackable
Connector
(Plug)



BODY STYLE
4C2 – 4-row plug
with potting
well



SIZE
028 – 28 contacts
052 – 52 contacts
076 – 76 contacts
100 – 100 contacts
128 – 128 contacts
152 – 152 contacts



TERMINATION
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
00 – None
57 – Guide pins, non-polarized
61 – Hex turning jackscrews
(requires fixed jackset hardware)



WIRING
00 – None (solder cup or flex)
XX – See page 125 for codes

Notes:

Cap removal tool: AirBorn part number CDG10056
Contact removal tool: AirBorn part number CDG10057

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

RC422 — Four-row, press-fit receptacle
RC4B2 — Four-row, I/O receptacle

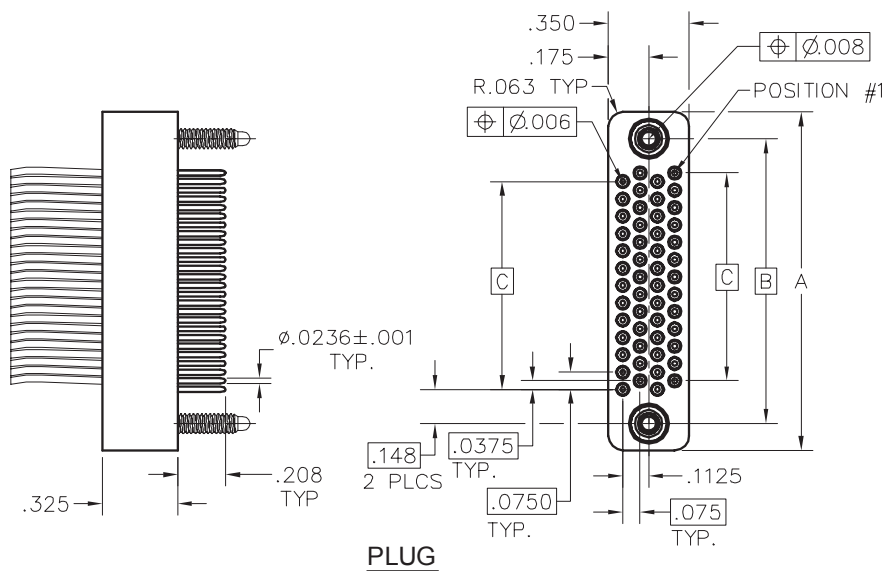
Terminations



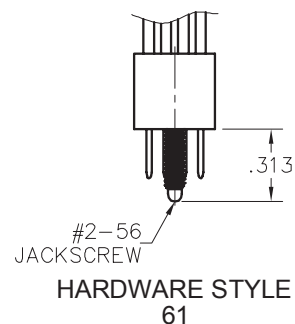
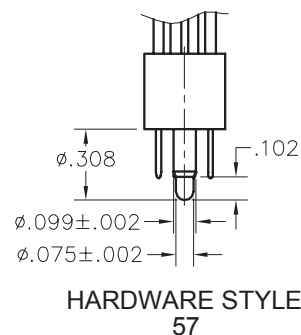
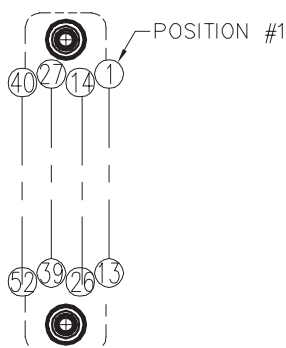


RC4 – Four-Row, I/O, Press-Fit, Cable-Mate Plug

Plastic ▪ 4-Row ▪ 28-152 Contacts



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



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



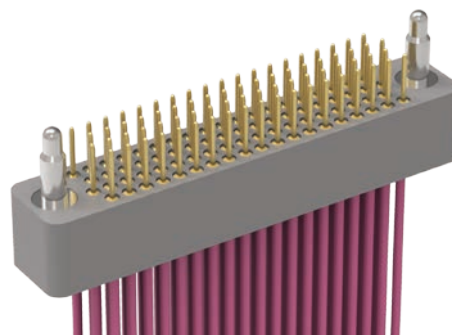
RC Series

Stackable
0.075"
(1.905mm)

RC4C2 – Four-Row, I/O, Stackable Plug

Contact Spacing: 0.075" (1.91 mm)

A full profile bodied male pre-wired cable connector for use at the top of an RC board stack application.



4
Row

Sample Part Number Format: RC4C2-052-181-57ED

RC4C2

SERIES
Stackable Compliant
Full-Profile 4 Rows 0.075"
Spacing Top-of-Stack
Cable Mate

052

CONFIGURATION
028 – 4 Rows/7 Columns
052 – 4 Rows/13 Columns
076 – 4 Rows/19 Columns
100 – 4 Rows/25 Columns
128 – 4 Rows/32 Columns
152 – 4 Rows/38 Columns

181

CONTACT
11 – Pin, solder cup
15 – Pin, flex circuit
18 – Pin, crimp, 26-24 AWG
19 – Pin, crimp, 30-28 AWG

3

PLATING
1 – 50 μ " Au
3 – 30 μ " Au

57

HARDWARE
00 – None
57 – Guide pin, non-polarized
61 – Jackscrew, hex, turning*

ED

TYPE
00 – None
XX – See Wire Codes
on page 125

Blank

VARIATION
Blank – None
XXX – Consult factory

Notes:

Mated Height: Connector body height is 0.325" and is designed to mount flush to the mating connector.

* To use the -61 jackscrew hardware option, the fixed jacknut hardware (-XXMT) must be in place on the mating board connector.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

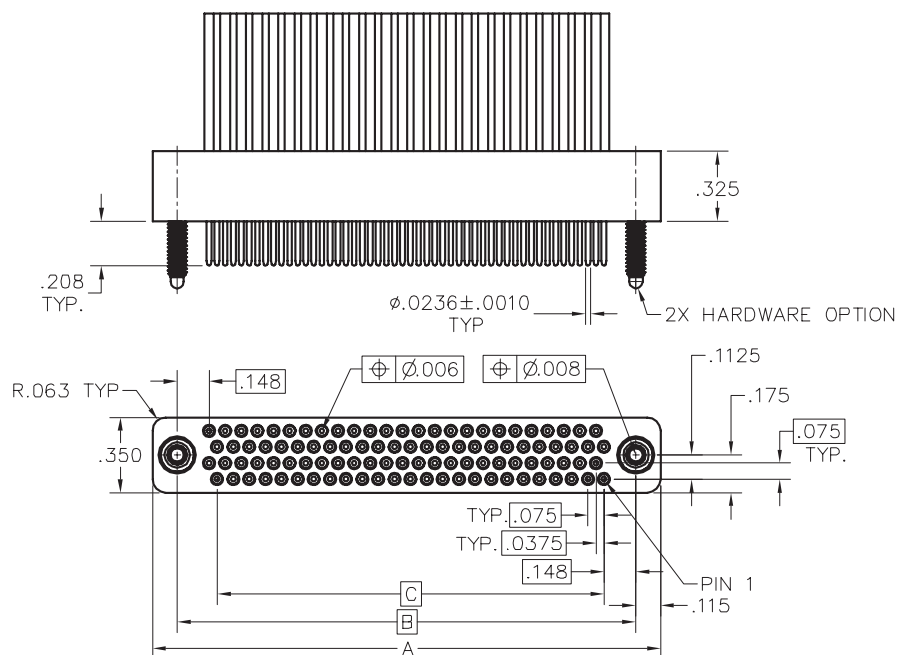
RC422 — Four-row, straight receptacle

Terminations

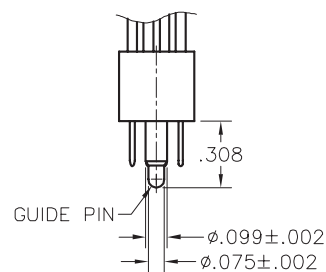


RC4C2 – Four-Row, I/O, Stackable Plug

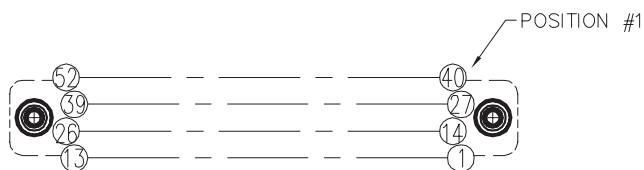
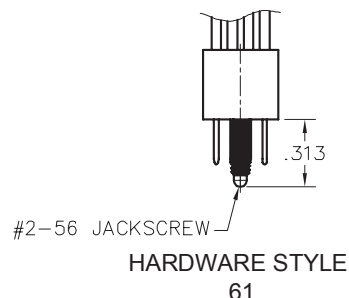
Plastic ▪ 4-Row ▪ 28-152 Contacts



PLUG



HARDWARE STYLE
57



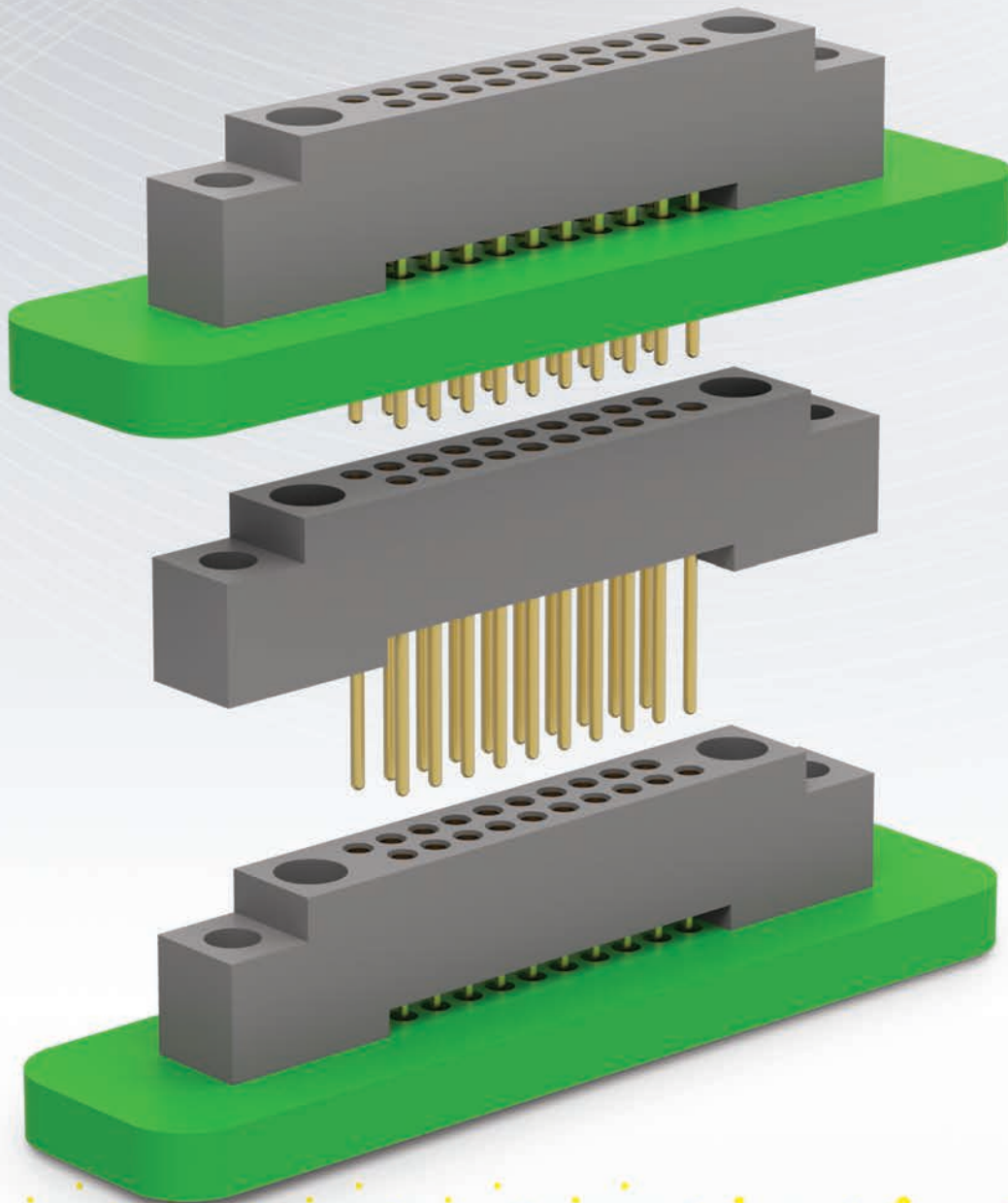
PIN IDENTIFICATION PATTERN
(EXAMPLE: 52 POSITION CONNECTOR)

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

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

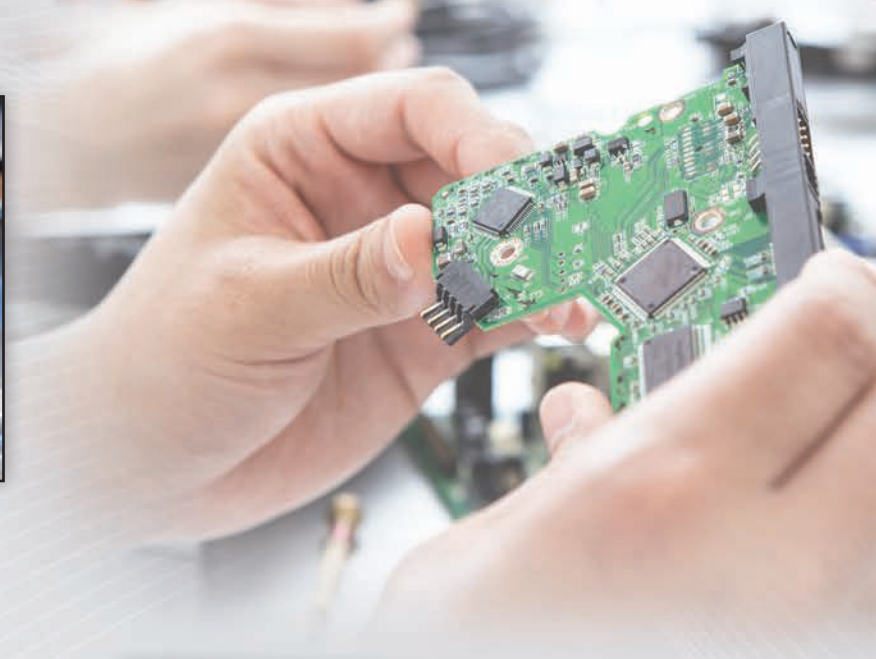
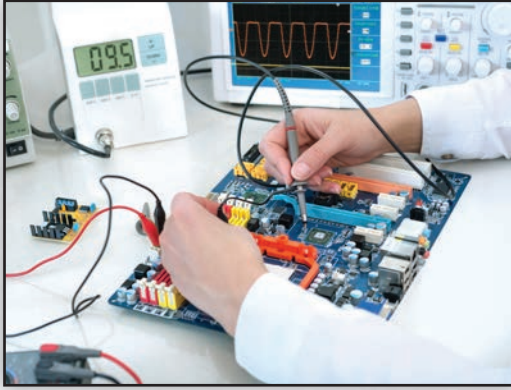


R-Series Connector Accessories



R-Series Connectors

0.075" (1.905 mm)



R-Series contains "connector savers", designed to withstand the rigors of repeated mating and un-mating during testing and qualification.

AirBorn also offers essential tools needed to prepare crimped wire terminations.

- 10-206 contacts (connector savers)
- Connector saver receptacles used for continuous mating/un-mating testing
- Crimping, crimp positioner & crimp removal tools

Now you're **AirBorn Connected[®]**



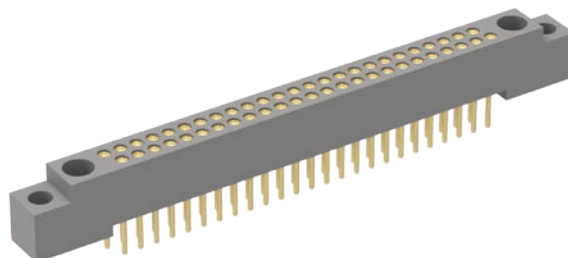
R Series

High-Density
0.075"
(1.905mm)

RM – Two-Row, Connector Saver Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



Sample Part Number Format: RM222-100-291-0256

RM	2		2		29	1	0256
SERIES 0.075" Plastic Rectangular Connector (Receptacle)	ROWS 2 – 2-Row (10-100 contacts)	STYLE 2 – Receptacle, straight with mounting ears 4 – Receptacle, straight without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 010 – 10 contacts 020 – 20 contacts 030 – 30 contacts 040 – 40 contacts 050 – 50 contacts 060 – 60 contacts 070 – 70 contacts 080 – 80 contacts 090 – 90 contacts 100 – 100 contacts	TERMINATION 29 – Connector saver, 0.150" x 0.025" Ø **	PLATING 1 – Gold	HARDWARE 0256 – None

TERMINATION
29 – Connector saver, 0.150" x 0.025" Ø **

Notes:

- ‡ Not RoHS-compliant
- ** See page 146 for stackable and connector saver information.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

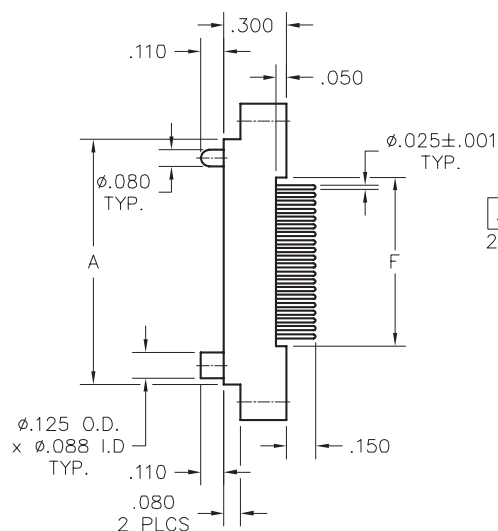
- RM212 & RM232 — Two-row, straight plug
- RM252 & RM272 — Two-row, right-angle plug
- RA2 — Two-row, I/O plug
- RM2 — Two-row, I/O plug

Terminations

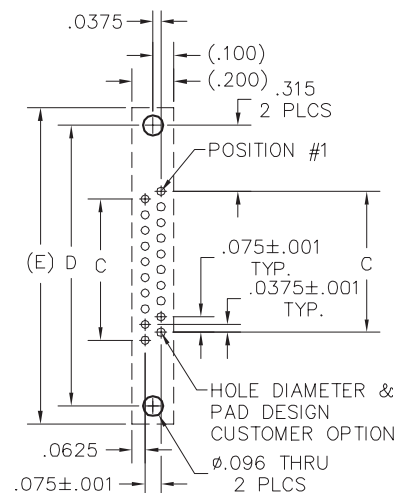


RM – Two-Row, Connector Saver Receptacle

Plastic ▪ 2-Row ▪ 10-100 Contacts

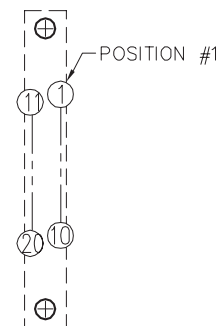


RECEPTACLE



PCB VIEWED FROM
COMPONENT SIDE

DIMENSIONS						
SIZE	A	B	C	D	E	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



PIN IDENTIFICATION PATTERN
(EXAMPLE: 20 POSITION CONNECTOR)

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



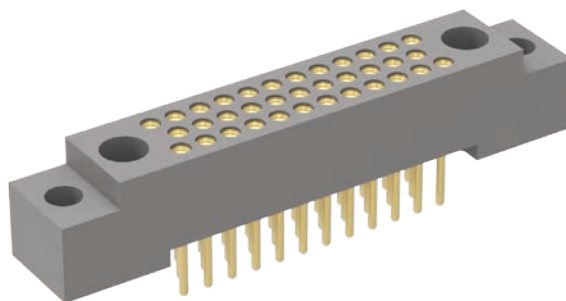
R Series

High-Density
0.075"
(1.905mm)

RM – Three-Row, Connector Saver Receptacle

Contact Spacing: 0.075" (1.91 mm)

R-Series products are high-density, plastic connectors commonly used in board-to-board applications. Approved to MIL-55302 standard.



3
Row

Sample Part Number Format: RM322-152-291-0256

RM	3		2		29	1	0256
SERIES 0.075" Plastic Rectangular Connector (Receptacle)	ROWS 3 – 3-Row (11-206 contacts)	STYLE 2 – Receptacle, straight with mounting ears 4 – Receptacle, straight without mounting ears	BODY MATERIAL 2 – Polyphenylene sulfide (PPS)	SIZE 011 – 11 contacts 023 – 23 contacts 035 – 35 contacts 047 – 47 contacts 059 – 59 contacts 071 – 71 contacts 080 – 80 contacts 092 – 92 contacts 104 – 104 contacts 122 – 122 contacts 140 – 140 contacts 152 – 152 contacts 182 – 182 contacts 206 – 206 contacts	TERMINATION 29 – Connector saver, 0.150" x 0.025" Ø**	PLATING 1 – Gold	HARDWARE 0256 – None

TERMINATION
29 – Connector saver, 0.150" x 0.025" Ø**

Notes:

‡ Not RoHS-compliant

** See page 146 for stackable and connector saver information.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Mates with

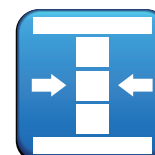
RM312 & RM332 — Three-row, straight plug

RM352 & RM372 — Three-row, right-angle plug

RA3 — Three-row, I/O plug

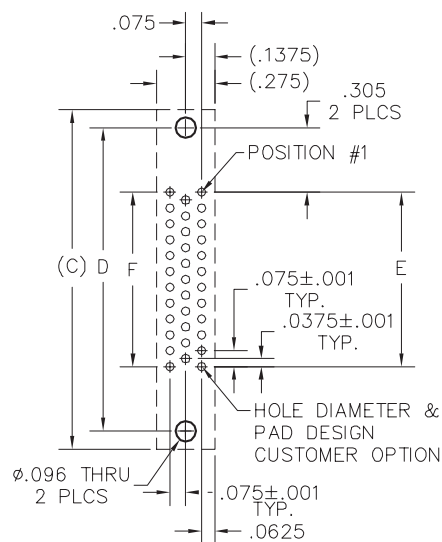
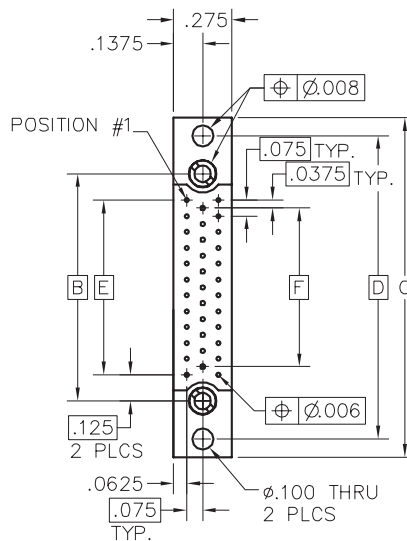
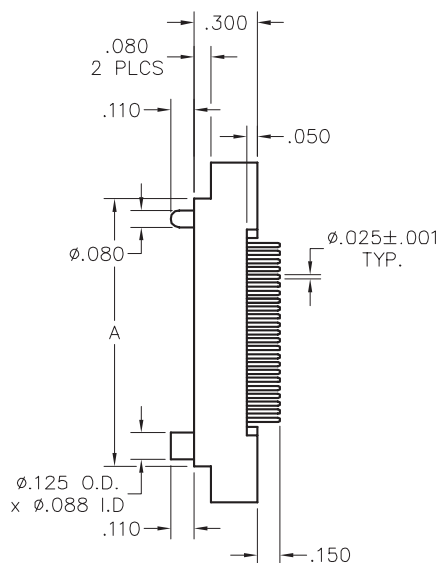
RM3 — Three-row, I/O plug

Terminations



RM – Three-Row, Connector Saver Receptacle

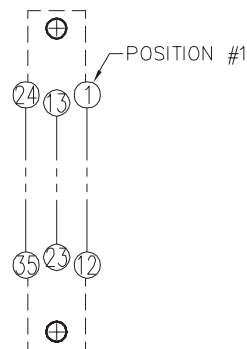
Plastic ▪ 3-Row ▪ 11-206 Contacts



RECEPTACLE

PCB LAYOUT VIEWED FROM COMPONENT SIDE

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



PIN IDENTIFICATION PATTERN (EXAMPLE: 35 POSITION CONNECTOR)

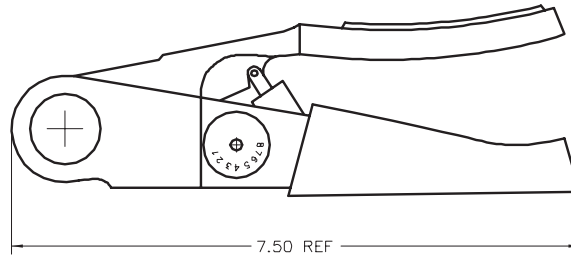
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



RA Crimp Accessories

Crimp Tool

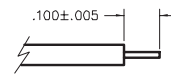
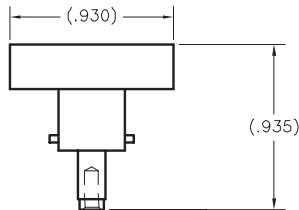
TC2963 - CRIMP TOOL
REF M22520/2-01



Crimp Positioner

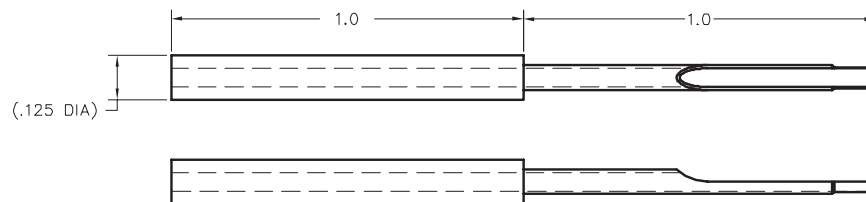
USE WITH RA/RH			
STYLE 1 OR 2			
SEL#	2	2	
AWG	28	30	
STYLE 3 OR 4			
SEL#	4	3	2
AWG	22	24	26
CDG16781			

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

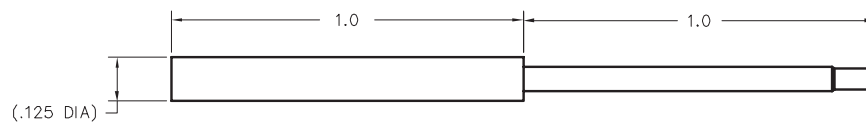


INSULATION STRIPPING
EXPOSE .100 BARE WIRE
LENGTH FOR INSERTION INTO
CONTACT.

Insertion Tool - CDG17256



Removal Tool - CDG17257



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



Wire Codes

USING WIRE CODES

RA2H2-020-2HC-5900

Type and Color  Length

CODE	SIZE	COLOR
MIL-W-16878/4		
A	22 AWG	Ten - Repeating
B	22 AWG	White
C	24 AWG	Ten - Repeating
D	24 AWG	White
E	26 AWG	Ten - Repeating
F	26 AWG	White
G	28 AWG	Ten - Repeating
H	28 AWG	White
J	30 AWG	Ten - Repeating
K	30 AWG	White
MIL-W-22759/33		
L	22 AWG	Ten - Repeating
M	22 AWG	White
N	24 AWG	Ten - Repeating
P	24 AWG	White
R	26 AWG	Ten - Repeating
S	26 AWG	White
T	28 AWG	Ten - Repeating
U	28 AWG	White
V	30 AWG	Ten - Repeating
W	30 AWG	White

CODE	LENGTH (+1"/-0")
A	6"
B	12"
C	18"
D	24"
E	30"
F	36"
G	42"
H	48"
J	54"
K	60"
L	66"
M	72"
N	84"
P	96"
R	108"
S	120"

Color Sequence for Ten Repeating Wire Colors

(Beginning in Position #1)

Black
Brown
Red
Orange
Yellow
Green
Blue
Violet
Grey
White

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RM Specifications

Contacts	Pins: BeCu per ASTM-B196, ASTM-B197 / B197M or brass alloy per ASTM-B16 / B16M or ASTM-B134 / B134M Sockets: BeCu per ASTM-B194 and/or ASTM-B196, ASTM-B197/B197M or Brass per ASTM-B16 / B16M or ASTM-B134 / B134M
Contact Finish	Gold plate per MIL-DTL-45204, ASTM-B488, 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/sockets and Knobs	Stainless steel per ASTM-A582 / A582M, passivated per ASTM-A967, SAE AMS-QQ-P-35, AMS 2700
Guide Pins/Sockets	Stainless steel per ASTM A582 / A582M, passivated per ASTM A967, SAE AMS-QQ-P-35, AMS 2700
Guide Sockets – Polarized, Type “D”	BeCu per ASTM-B196, ASTM-B197 / B197M, 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- and 3-row right-angle connectors.
Tolerances	Unless otherwise specified: Fractions = $\pm 1/64$" Decimals = ± 0.010" Angles = $\pm 5^\circ$ Datums for the contact, hardware and mounting locations are the X & Y centerlines of the contact pattern

[‡] Not RoHS-compliant

Note: Pre-tinning of connector leads can result in the termination length extending beyond the upper tolerance.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



RM Performance (Reference MIL-C-55302)

Contact Rating	3 amperes (2 amperes for 0.016" diameter)
Solderability	Terminals (except Wire-Wrap®, crimp and stackables) tested in accordance with MIL-STD-202, Method 208
Wire Size	Stranded #26 AWG
Operating Temp.	-65° to +125° C or -85° to +257° F
Test Voltage	750 V, RMS, 60 Hz @ sea level per EIA-364-20, Method A 250 V, RMS, 60 Hz @ 70,000 feet per EIA-364-20, Method A
Insulation Resistance	5,000 megohms minimum @ 500 VDC per EIA-364-20
Durability	500 connector mating cycles
Vibration	Mated connectors, Test Condition III per EIA-364-28
Shock	Mated connectors, Test Condition G per EIA-364-27
Salt Spray	Mated connectors, Test Condition B per EIA-364-26
Humidity	Mated connectors tested per EIA-364-31, Type II (except steps 7a and 7b)
Thermal Shock	Tested to the temperature extremes of EIA-364-32, Test Condition A
Contact Resistance	.015 ohms max (interface measurement) @ 3 amperes per EIA-364-06
Connector Mating Force	2.5 oz x number of contacts average
Outgassing	The entire connector assembly shall have max 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+	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 or equivalent to threads.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



R-Series Contacts (2- and 3-Row)

Pins

- 11 Pin, straight, solder cup
- 0.025 $\pm$ 0.001 ϕ
- 0.020 $\pm$ 0.001 ϕ
- 10 Pin, straight, Plated thru-hole, 0.109"
- 12 Pin, straight, Plated thru-hole, 0.140"
- 13 Pin, straight, Plated thru-hole, 0.172"
- 14 Pin, straight, Plated thru-hole, 0.250"
- 0.017 $\pm$ 0.001 ϕ
- 15 Pin, straight, flex circuit, 0.093"
- 0.025 $\pm$ 0.001 ϕ

- 0.025 $\pm$ 0.001 ϕ
- 0.016 $\pm$ 0.001 ϕ
OR
0.020 $\pm$ 0.001 ϕ
- 31 Pin, right-angle, Plated thru-hole, 0.109" x 0.020"
- 32 Pin, right-angle, Plated thru-hole, 0.140" x 0.020"
- 33 Pin, right-angle, Plated thru-hole, 0.172" x 0.020"
- 34 Pin, right-angle, Plated thru-hole, 0.109" x 0.016"
- 32 Pin, right-angle, Plated thru-hole, 0.140" x 0.016"
- 33 Pin, right-angle, Plated thru-hole, 0.172" x 0.016"

Sockets

- 0.016 $\pm$ 0.001 ϕ
OR
0.020 $\pm$ 0.001 ϕ
- 20 Socket, straight, Plated thru-hole, 0.109" x 0.020"
- 21 Socket, straight, Plated thru-hole, 0.140" x 0.020"
- 22 Socket, straight, Plated thru-hole, 0.172" x 0.020"
- 23 Socket, straight, Plated thru-hole, 0.250" x 0.020"
- 50 Socket, straight, Plated thru-hole, 0.140" x 0.016"
- 51 Socket, straight, Plated thru-hole, 0.172" x 0.016"

- 24 Socket, straight, solder cup

- 0.017 $\pm$ 0.001 ϕ
- 25 Socket, straight, flex circuit, 0.093"

- 0.020 $\pm$ 0.001 ϕ
- 64 Socket, straight, press-fit, 0.203" (Board: 0.093"–0.125")
- 65 Socket, straight, press-fit, 0.323" (Board: 0.156"–0.200")
- 66 Socket, straight, press-fit, 0.403" (Board: $\leq$ 0.250")

- 0.025 $\pm$ 0.001 ϕ
- 53 Socket, straight, stackable, 0.212" (Board: 0.062")
- 54 Socket, straight, stackable, 0.244" (Board: 0.094")
- 55 Socket, straight, stackable, 0.275" (Board: 0.125")

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

- 0.025 $\pm$ 0.001 ϕ
- 29 Socket, connector saver, 0.150"

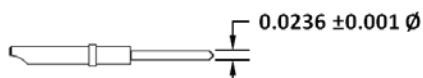
- 0.020 $\pm$ 0.001 ϕ
- 44 Socket, right-angle, Plated thru-hole, 0.109"
- 45 Socket, right-angle, Plated thru-hole, 0.140"
- 46 Socket, right-angle, Plated thru-hole, 0.172"
- 47 Socket, right-angle, Plated thru-hole, 0.250"

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

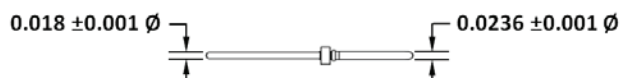


R-Series Contacts (4-Row)

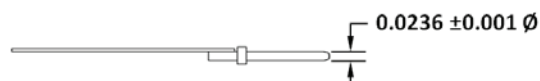
Pins



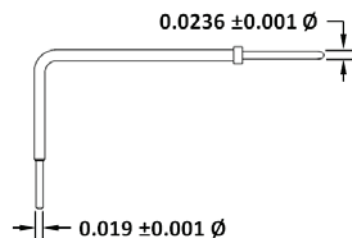
17 Pin, straight, solder cup



51 Pin, straight, Plated thru-hole, 0.109"
52 Pin, straight, Plated thru-hole, 0.140"
53 Pin, straight, Plated thru-hole, 0.172"

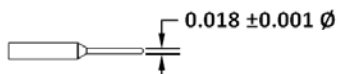


19 Pin, SMT, 0.014" x 0.007, scored for organizer removal
39 Pin, SMT, 0.014" x 0.007, unscored



31 Pin, right-angle, Plated thru-hole, 0.109" x 0.019"
32 Pin, right-angle, Plated thru-hole, 0.140" x 0.019"
33 Pin, right-angle, Plated thru-hole, 0.172" x 0.019"

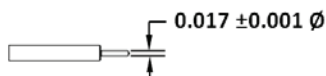
Sockets



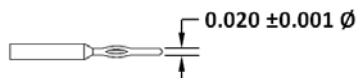
75 Socket, straight, Plated thru-hole, 0.250"
81 Socket, straight, Plated thru-hole, 0.109"
82 Socket, straight, Plated thru-hole, 0.140"
83 Socket, straight, Plated thru-hole, 0.172"



76 Socket, straight, solder cup



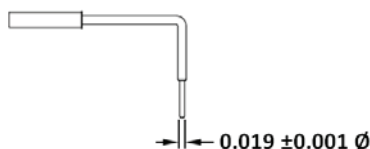
77 Socket, straight, flex circuit, 0.093"



87 Socket, straight, press-fit, 0.188" (Board: 0.093"–0.125")
88 Socket, straight, press-fit, 0.308" (Board: 0.156"–0.200")
89 Socket, straight, press-fit, 0.388" (Board: ≤ 0.250")



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



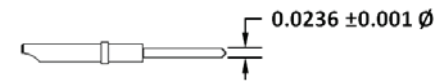
84 Socket, right-angle, Plated thru-hole, 0.109"
85 Socket, right-angle, Plated thru-hole, 0.140"
86 Socket, right-angle, Plated thru-hole, 0.172"

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

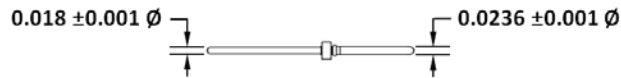


R-Series Contacts (6-Row)

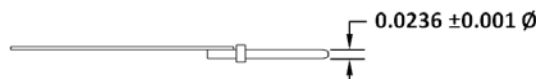
Pins



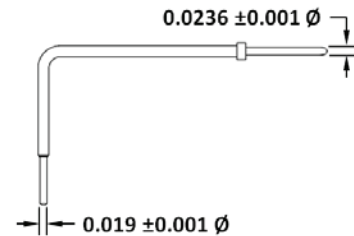
17 Pin, straight, solder cup



- 51 Pin, straight, Plated thru-hole, 0.109"
- 52 Pin, straight, Plated thru-hole, 0.140"
- 53 Pin, straight, Plated thru-hole, 0.172"
- 54 Pin, straight, Plated thru-hole, 0.250"

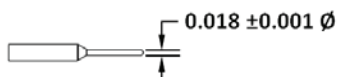


19 Pin, SMT, 0.014" x 0.007"

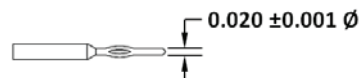


- 31 Pin, right-angle, Plated thru-hole, 0.109" x 0.019"
- 32 Pin, right-angle, Plated thru-hole, 0.140" x 0.019"
- 33 Pin, right-angle, Plated thru-hole, 0.172" x 0.019"
- 34 Pin, right-angle, Plated thru-hole, 0.250" x 0.019"

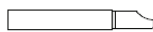
Sockets



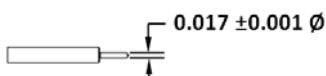
- 81 Socket, straight, Plated thru-hole, 0.109"
- 82 Socket, straight, Plated thru-hole, 0.140"
- 83 Socket, straight, Plated thru-hole, 0.172"



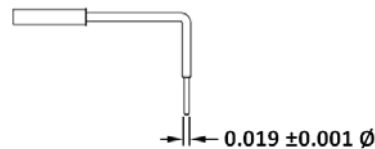
- 87 Socket, straight, press-fit, 0.203" (Board: 0.093"–0.125")
- 88 Socket, straight, press-fit, 0.308" (Board: 0.156"–0.200")
- 89 Socket, straight, press-fit, 0.403" (Board: ≤ 0.250")



76 Socket, straight, solder cup



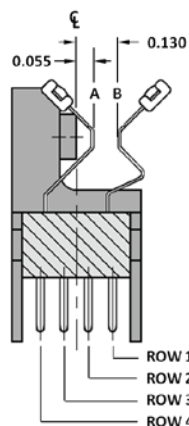
77 Socket, straight, flex circuit, 0.093"



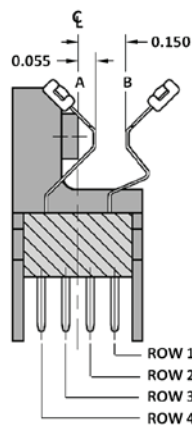
- 84 Socket, right-angle, Plated thru-hole, 0.109"
- 85 Socket, right-angle, Plated thru-hole, 0.140"
- 86 Socket, right-angle, Plated thru-hole, 0.172"

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

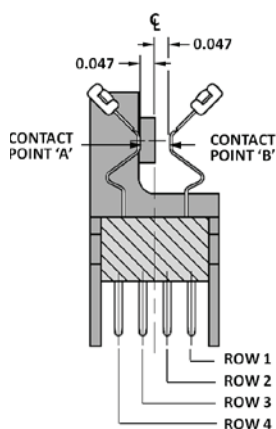
RM SMT Configuration Options



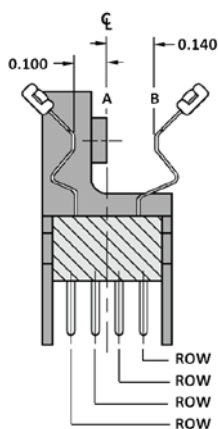
STYLE 925



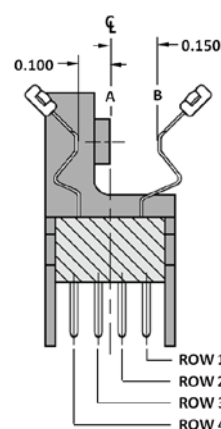
STYLE 927



STYLE 933



STYLE 946

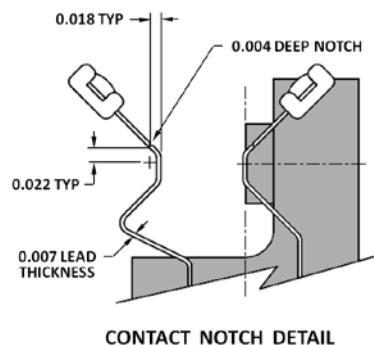


STYLE 947

DISTANCE FROM CONTACT POINT TO CENTER LINE			
OPTION CODE	A	A or B	B
1	0.005	—	—
2	0.055	—	—
3	—	0.047	—
4	—	0.100	—
5	—	0.130	—
6	—	0.140	—
7	—	0.150	—
8	—	0.070	—
9	—	0.080	—
0	—	—	0.090

NOTES:

1. All SMT option codes begin with '9', i.e. 9AB
2. Various board thicknesses can be accommodated by specifying A and B designators. Ex. 946
3. Consult factory for other available options



CONTACT NOTCH DETAIL

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



#2-56 Jacksets (2- and 3-Row)

Fixed Jacksets



2900	Fixed jackset	1900	Two fixed jackscrews
3000	Fixed jackset, reversed	2900	Two fixed jackscrews

Fixed Jacksets, Long



8800	Fixed jackset, long
8900	Fixed jackset, long, reversed
9000	Two fixed jackscrews, long
9100	Two fixed jackscrews, long

Turning Jacksets Internal Hex or Slotted



SLOTTED

5100	Turning jackset, 0.700"
5200	Turning jackset, 0.700", reversed
5300	Two turning jackscrews, 0.700"
5400	Two turning jackscrews, 0.700"
6400	Turning jackset, 0.490"
6500	Turning jackset, 0.490", reversed
6600	Two turning jackscrews, 0.490"
6700	Two turning jackscrews, 0.490"
6800	Turning jackset, 0.545"
6900	Turning jackset, 0.545", reversed
7000	Two turning jackscrews, 0.545"
7100	Two turning jackscrews, 0.545"

HEX

7200	Turning jackset (hex), 0.490"
7300	Turning jackset (hex), 0.490", reversed
7400	Two turning jackscrews (hex), 0.490"
7500	Two turning jackscrews (hex), 0.490"
7600	Turning jackset (hex), 0.545"
7700	Turning jackset (hex), 0.545", reversed
7800	Two turning jackscrews (hex), 0.545"
7900	Two turning jackscrews (hex), 0.545"
8000	Turning jackset (hex), 0.700"
8100	Turning jackset (hex), 0.700", reversed
8200	Two turning jackscrews (hex), 0.700"
8300	Two turning jackscrews (hex), 0.700"

Low-Profile Jacksets Internal Hex



5900	Turning jackset (hex), 0.200"
6000	Turning jackset (hex), 0.200", reversed
6100	Two turning jackscrews (hex), 0.200"
6200	Two turning jackscrews (hex), 0.200"

Hardware Only

AirBorn part numbers for hardware, only follow this pattern:

RM000-000-000-#### ◀ Insert 4-digit hardware type here

Example: RM000-000-000-5100

Notes:

- For spanner nut wrench, order part number TN1680.
- When installing fixed jacksets, apply Loctite® to threads.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

Guide Sets (2- and 3-Row)



5500	Guide set	5700	Two guide pins
5600	Guide set, reversed	5800	Two guide sockets

Long Guide Sets



8400	Guide set, long
8500	Guide set, long, reversed
8600	Two guide pins, long
8700	Two guide sockets, long

Polarized Guide Sets



5501 – 5564 and 5570
Note: For polarization options, see page 140

Universal Test Guide Sets



5565 – 5568
Note: For polarization options, see page 140

Dimensions for Jackset and Guide Set Drawings

HW TYPE	A	C	D	E	F	H	K	L	M	N	P	
1900,2000,2900,3000	—	0.390	0.240	—	#2-56 UNC thread	0.125 dia.	—	—	0.125 dia.	—	—	
5100 – 5400	0.700	0.750		0.031 x 0.031 slot			0.125 diameter	0.156 diameter	—	—	—	
5500 – 5800	—	0.390		—			—	0.125 diameter	0.080 dia.	0.088 dia.		
5501 – 5564	—			—			—				0.068	0.076
5565 – 5568	—			—			—				0.056 sq.	0.088 dia.
5900 – 6200	0.200	0.500		5/64 int. hex			—	0.140 dia.	—	—	—	
6400 – 6700	0.490	0.750		0.031 x 0.031 slot			0.125 diameter	0.156 diameter	—	—	—	
6800 – 7100	0.545			—					—	—		
7200 – 7500	0.490			—					—	—		
7600 – 7900	0.545			—					—	—		
8000 – 8300	0.700			—					—	—		
8400 – 8700	—	0.680		—			—	—	0.125 diameter	0.080 dia.	0.088 dia.	
8800 – 9100	—			—			—	—		—		

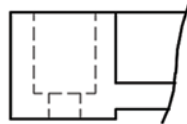
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



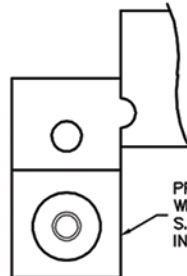
Hardware Layout for RM4

0256

SOCKET, STR/S.CUP/FLEX/W.WRAP
RM422-XXX-XXX-0256
SOCKET, RIGHT ANGLE
RM462-XXX-8XX-0256

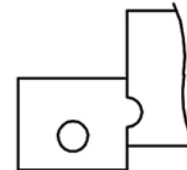


PIN, SURFACE MOUNT
RM412-XXX-192-0256-9XX
PIN, RIGHT ANGLE
RM452-XXX-3XX-0256



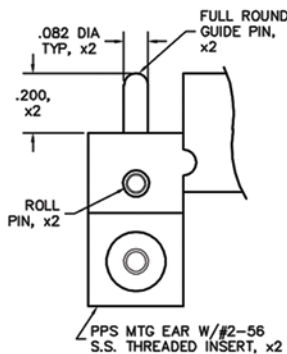
PPS MTG EAR
WITH #2-56
S.S. THREADED
INSERT, x2

PIN, FLEX
RM412-XXX-4XX-0256
PIN, STRAIGHT
RM412-XXX-5XX-0256
PIN, SOLDER CUP
RM412-XXX-17X-0256

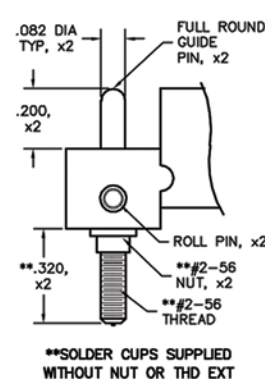


9000

PIN, SURFACE MOUNT
RM412-XXX-192-9000-XXX
PIN, RIGHT ANGLE
RM452-XXX-3XX-9000

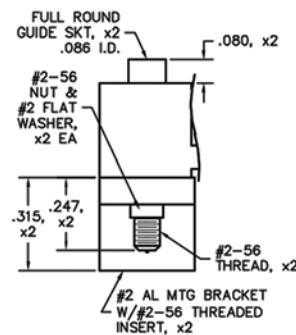


PIN, FLEX
RM412-XXX-4XX-9000
PIN, STRAIGHT
RM412-XXX-5XX-9000
**PIN, SOLDER CUP
RM412-XXX-17X-9000

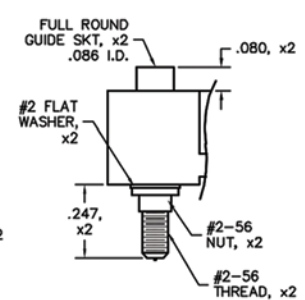


9100

SOCKET, RIGHT ANGLE
RM462-XXX-8XX-9100

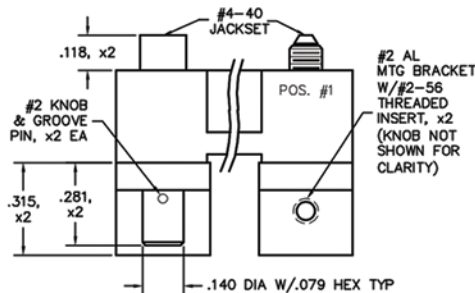


SOCKETS, STR/S.CUP/FLEX/W.WRAP
RM422-XXX-7XX-9100
SOCKETS, STR/PRESS FIT
RM422-XXX-8XX-9100



9200

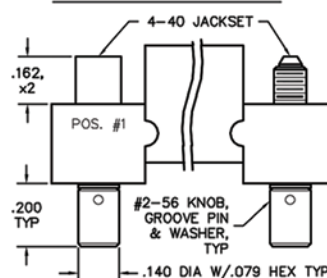
SOCKET, RIGHT ANGLE
RM462-XXX-8XX-9200



PIN, SOLDER CUP
RM412-XXX-1XX-9200

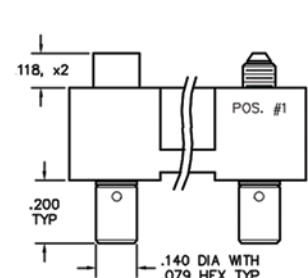
PIN, FLEX
RM412-XXX-4XX-9200

PIN, STRAIGHT
RM412-XXX-5XX-9200



SOCKET, STRAIGHT
RM422-XXX-7XX-9200

SOCKET, STRAIGHT
RM422-XXX-8XX-9200

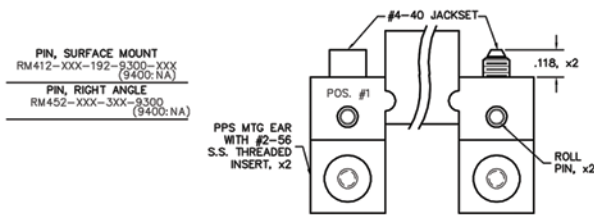


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Hardware Layout for RM4

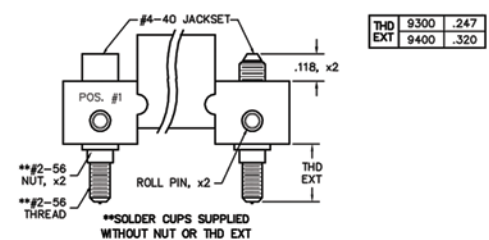
9300/9400



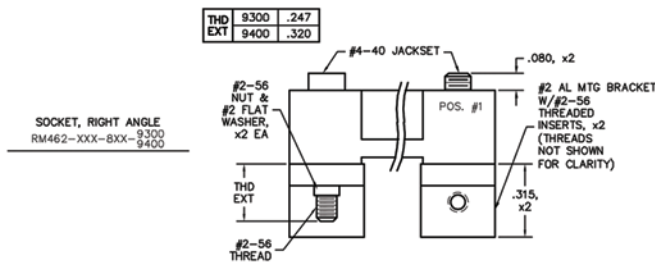
PIN, FLEX
RM412-XXX-4XX-9300
9400

PIN, STRAIGHT
RM412-XXX-5XX-9300
9400

****PIN, SOLDER CUP**
RM412-XXX-17X-9300
(9400:NA)

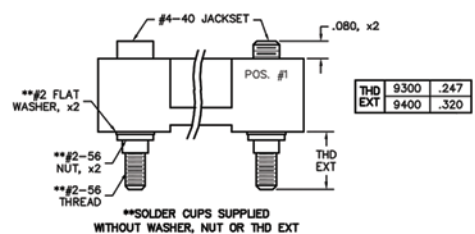


THD	9300	.247
EXT	9400	.320



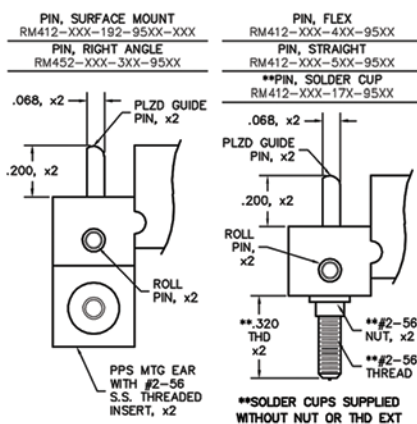
SOCKET, STR/S.CUP/FLEX/W.WRAP
RM422-XXX-7XX-9300
9400

SOCKET, STR/PRESS FIT
RM422-XXX-8XX-9300
9400



THD	9300	.247
EXT	9400	.320

95XX



PIN, FLEX
RM412-XXX-4XX-95XX

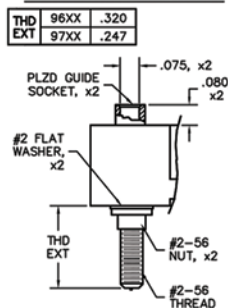
PIN, STRAIGHT
RM412-XXX-5XX-95XX

****PIN, SOLDER CUP**
RM412-XXX-17X-95XX

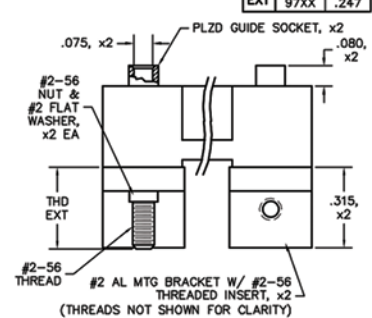
96XX/97XX

SOCKETS, STR/S.CUP/FLEX/W.WRAP
RM422-XXX-7XX-97XX

SOCKETS, STR/PRESS FIT
RM422-XXX-8XX-96XX
97XX

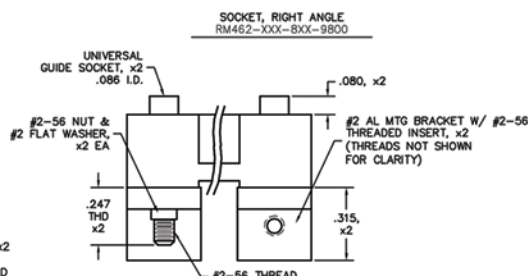
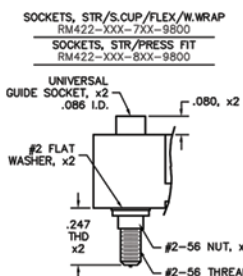


SOCKET, RIGHT ANGLE
RM462-XXX-8XX-97XX

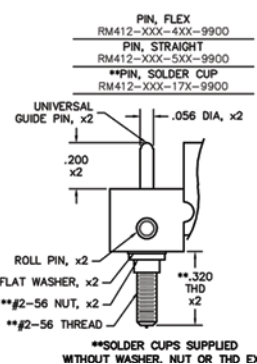
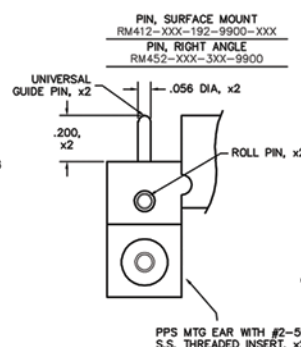


THD	96XX	.320
EXT	97XX	.247

9800



9900



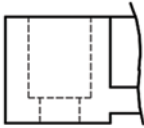
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Hardware Layout for RM6 — One Bay

0256

SOCKET, STR/SCUP/FLEX/PFIT
RM642-XXX-XXX-0256
SOCKET, RIGHT ANGLE
RM682-XXX-XXX-0256

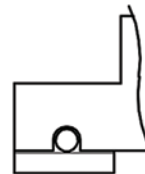


PIN, SURFACE MOUNT SCORED
RM632-XXX-192-0256-9XX
PIN, SURFACE MOUNT UNSCORED
RM632-XXX-392-0256-9XX
PIN, RIGHT ANGLE
RM672-XXX-3XX-0256



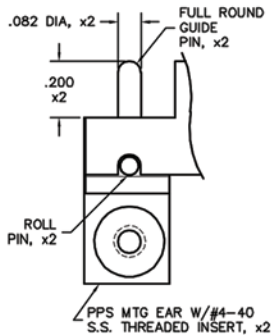
PPS MTG EAR
WITH #4-40
S.S. THREADED
INSERT, x2

PIN, FLEX
RM632-XXX-4XX-0256
PIN, STRAIGHT
RM632-XXX-5XX-0256
PIN, SOLDER CUP
RM632-XXX-17X-0256

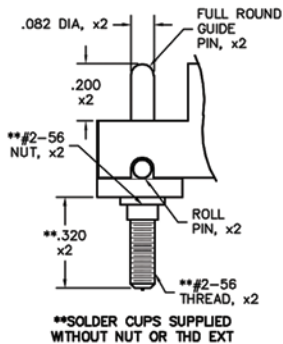


9000

PIN, SMT SCORED
RM632-XXX-192-9000-9XX
PIN, SMT UNSCORED
RM632-XXX-392-9000-9XX
PIN, RIGHT ANGLE
RM672-XXX-3XX-9000



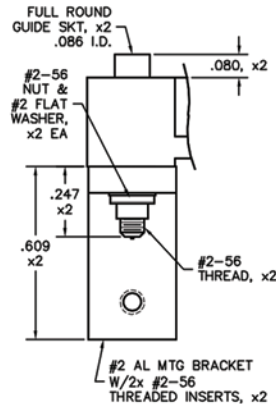
PIN, FLEX
RM632-XXX-4XX-9000
PIN, STRAIGHT
RM632-XXX-5XX-9000
**PIN, SOLDER CUP
RM632-XXX-17X-9000



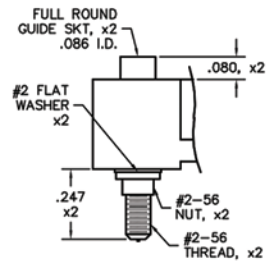
**SOLDER CUPS SUPPLIED
WITHOUT NUT OR THD EXT

9100

SOCKET, RIGHT ANGLE
RM682-XXX-8XX-9100

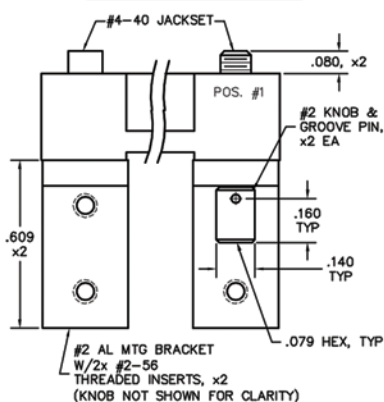


SOCKET, S.CUP/FLEX
RM642-XXX-7XX-9100
SOCKET, STR/PRESS FIT
RM642-XXX-8XX-9100

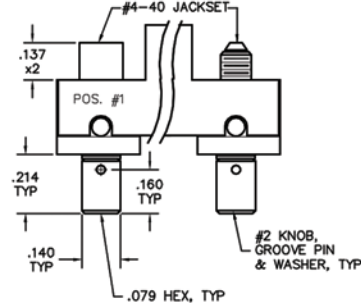


9200

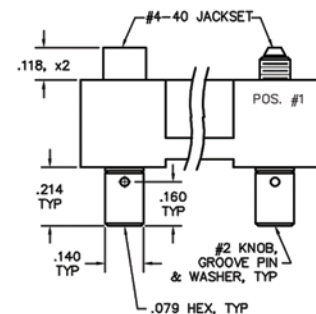
SOCKET, RIGHT ANGLE
RM682-XXX-8XX-9200



PIN, SOLDER CUP
RM632-XXX-17X-9200
PIN, FLEX
RM632-XXX-4XX-9200
PIN, STRAIGHT
RM632-XXX-5XX-9200



SOCKET, S.CUP/FLEX
RM642-XXX-7XX-9200
SOCKET, STR/PRESS FIT
RM642-XXX-8XX-9200



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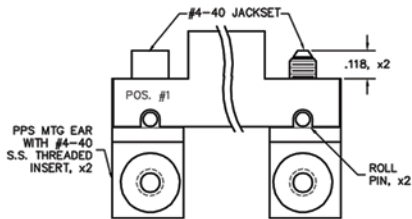
Hardware Layout for RM6 — One Bay

9300/9400

PIN, SURFACE MOUNT SCORED
RM632-XXX-192-9300-XXX
(9400: NA)

PIN, SURFACE MOUNT UNSCORED
RM632-XXX-392-9300-XXX
(9400: NA)

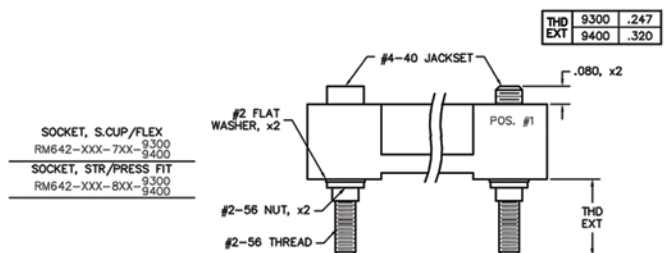
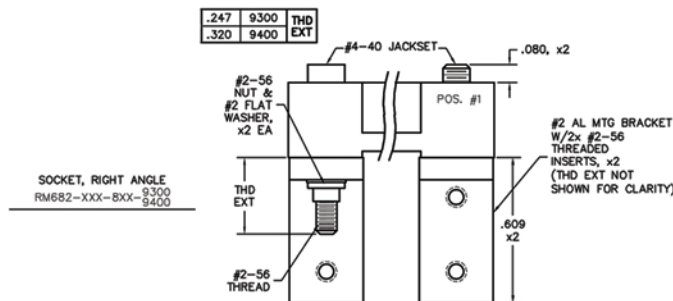
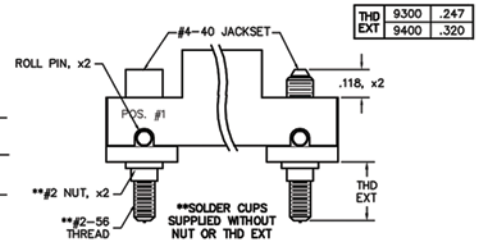
PIN, RIGHT ANGLE
RM672-XXX-3XX-9300
(9400: NA)



PIN, FLEX
RM632-XXX-4XX-9300
9400

PIN, STRAIGHT
RM632-XXX-5XX 9300
9400

PIN, SOLDER CUP
**RM632-XXX-17X-9300
(9400: NA)

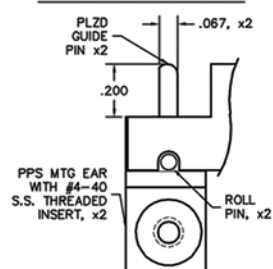


95XX

PIN, SURFACE MOUNT SCORED
RM632-XXX-192-95XX-9XX

PIN, SURFACE MOUNT UNSCORED
RM632-XXX-392-95XX-9XX

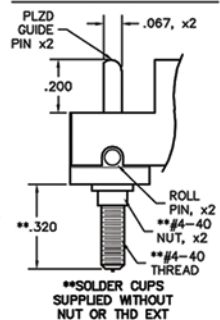
PIN, RIGHT ANGLE
RM672-XXX-3XX-95XX



PIN, FLEX
RM632-XXX-4XX-95XX

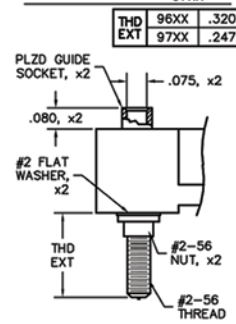
PIN, STRAIGHT
RM632-XXX-5XX-95XX

**PIN, SOLDER CUP
RM632-XXX-17X-95XX

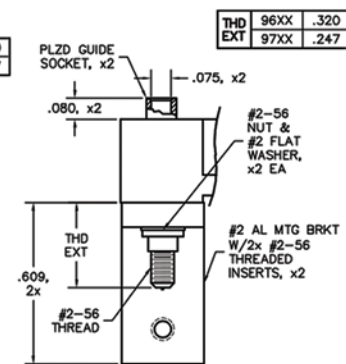


SOCKET, S.CUP/FLEX
RM642-XXX-7XX-96XX
97XX

SOCKET, S.CUP/P.FIT
RM642-XXX-8XX-96XX
97XX



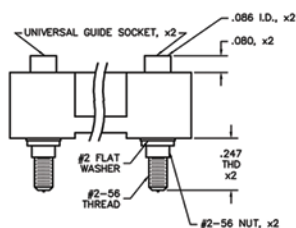
SOCKET, RIGHT ANGLE
RM682-XXX-8XX-96XX
97XX



9800

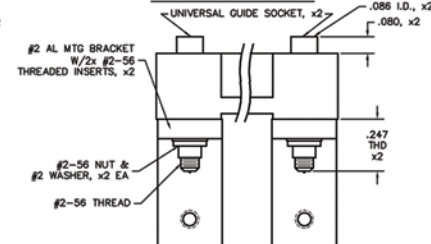
SOCKET, S.CUP/FLEX
RM642-XXX-7XX-9800

SOCKET, STR/PRESS FIT
RM642-XXX-8XX-9800



SOCKET, S.CUP/FLEX
RM682-XXX-7XX-9800

SOCKET, STR/PRESS FIT
RM682-XXX-8XX-9800

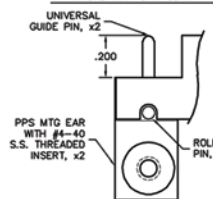


9900

PIN, SURFACE MOUNT SCORED
RM632-XXX-192-9900-9XX

PIN, SURFACE MOUNT UNSCORED
RM632-XXX-392-9900-9XX

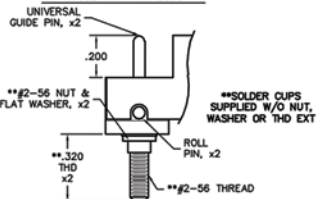
PIN, RIGHT ANGLE
RM672-XXX-3XX-9900



PIN, FLEX
RM632-XXX-4XX-9900

PIN, STRAIGHT
RM632-XXX-5XX-9900

**PIN, SOLDER CUP
RM632-XXX-17X-9900



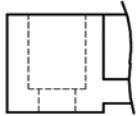
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Hardware Layout for RM6 — Two Bay

0256

SOCKET, STR/SCUP/FLEX/PFIT
RM622-XXX-XXX-0256
SOCKET, RIGHT ANGLE
RM662-XXX-XXX-0256

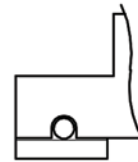


PIN, SURFACE MOUNT SCORED
RM612-XXX-192-0256-9XX
PIN, SURFACE MOUNT UNSCORED
RM612-XXX-392-0256-9XX
PIN, RIGHT ANGLE
RM652-XXX-3XX-0256



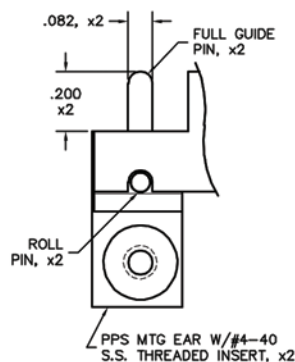
PPS MTG EAR
WITH #4-40
S.S. THREADED
INSERT, x2

PIN, FLEX
RM612-XXX-4XX-0256
PIN, STRAIGHT
RM612-XXX-5XX-0256
PIN, SOLDER CUP
RM612-XXX-17X-0256

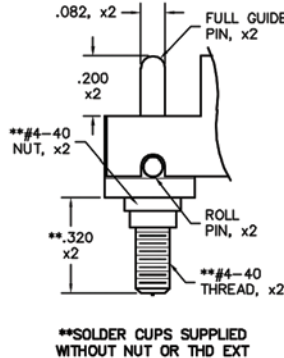


9000

PIN, SURFACE MOUNT SCORED
RM612-XXX-192-9000-9XX
PIN, SURFACE MOUNT UNSCORED
RM612-XXX-392-9000-9XX
PIN, RIGHT ANGLE
RM652-XXX-3XX-9000

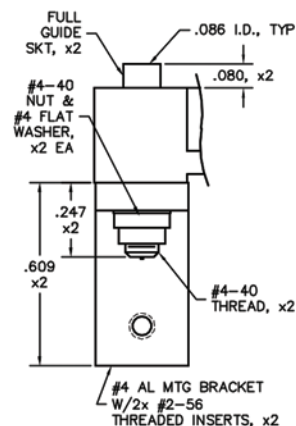


PIN, FLEX
RM612-XXX-4XX-9000
PIN, STRAIGHT
RM612-XXX-5XX-9000
**PIN, SOLDER CUP
RM612-XXX-17X-9000

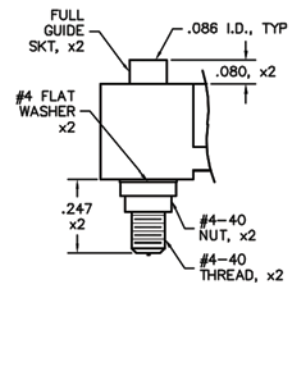


9100

SOCKET, RIGHT ANGLE
RM662-XXX-8XX-9100

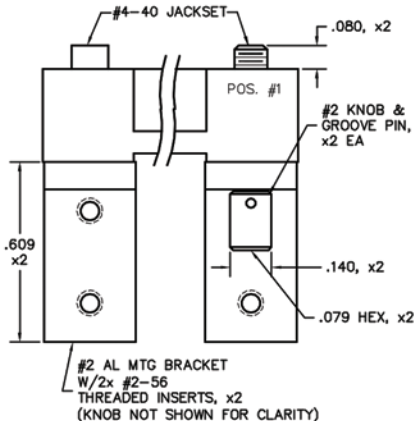


SOCKET, S.CUP/FLEX
RM622-XXX-7XX-9100
SOCKET, STR/PRESS FIT
RM622-XXX-8XX-9100



9200

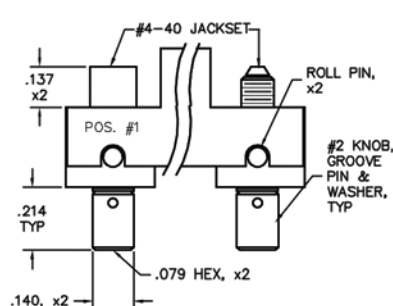
SOCKET, RIGHT ANGLE
RM682-XXX-8XX-9200



PIN, SOLDER CUP
RM612-XXX-17X-9200

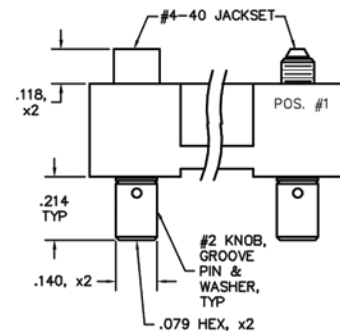
PIN, FLEX
RM612-XXX-4XX-9200

PIN, STRAIGHT
RM612-XXX-5XX-9200



SOCKET, S.CUP/FLEX
RM622-XXX-7XX-9200

SOCKET, STR/P.FIT
RM622-XXX-8XX-9200



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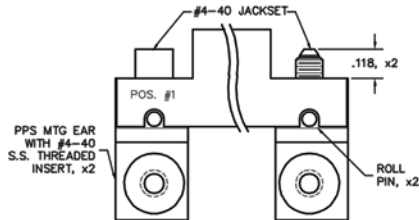
Hardware Layout for RM6 — Two Bay

9300/9400

PIN, SURFACE MOUNT SCORED
RM612-XXX-192-9300-XXX
(9400: NA)

PIN, SURFACE MOUNT UNSCORED
RM612-XXX-392-9300-XXX
(9400: NA)

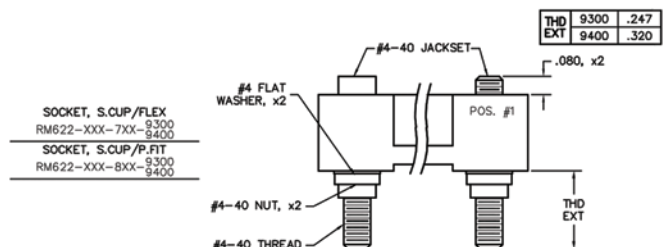
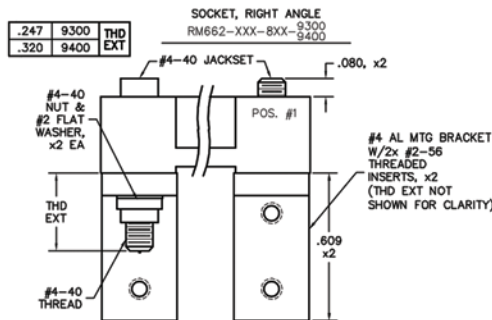
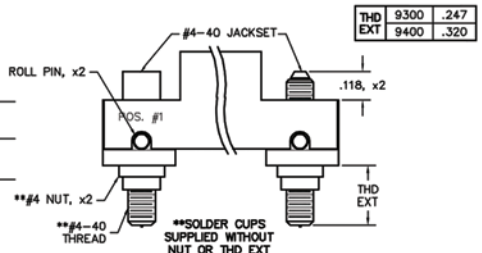
PIN, RIGHT ANGLE
RM652-XXX-3XX-9300
(9400: NA)



PIN, FLEX
RM612-XXX-4XX-9300
9400

PIN, STRAIGHT
RM612-XXX-5XX-9300
9400

**PIN, SOLDER CUP
RM612-XXX-17X-9300
(9400: NA)

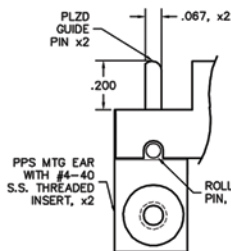


95XX

PIN, SURFACE MOUNT SCORED
RM612-XXX-192-95XX-9XX

PIN, SURFACE MOUNT UNSCORED
RM612-XXX-392-95XX-9XX

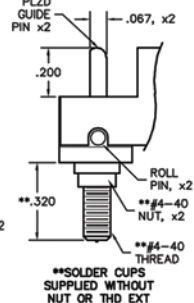
PIN, RIGHT ANGLE
RM652-XXX-3XX-95XX



PIN, FLEX
RM612-XXX-4XX-95XX

PIN, STRAIGHT
RM612-XX-5XX-95XX

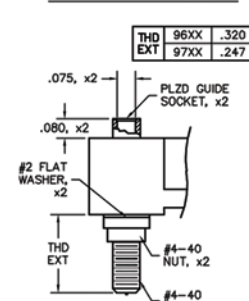
PIN, SOLDER CUP
**RM612-XXX-17X-95XX



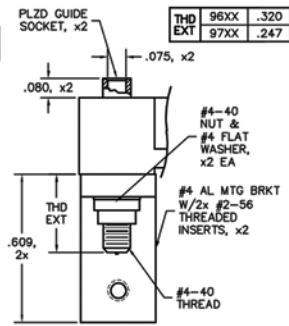
96XX/97XX

SOCKET, S.CUP/FLEX
RM622-XXX-7XX-96XX
97XX

SOCKET, S.CUP/P.FIT
RM622-XXX-8XX-96XX
97XX



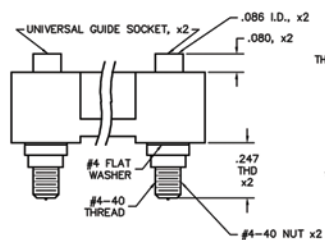
SOCKET, RIGHT ANGLE
RM662-XXX-8XX-97XX



9800

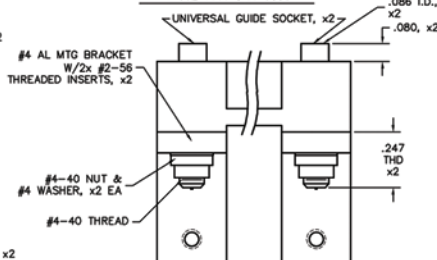
SOCKET, S.CUP/FLEX
RM622-XXX-7XX-9800

SOCKET, STR/P.FIT
RM622-XXX-8XX-9800



SOCKET, S.CUP/FLEX
RM662-XXX-7XX-9800

SOCKET, STR/PRESS FIT
RM662-XXX-8XX-9800

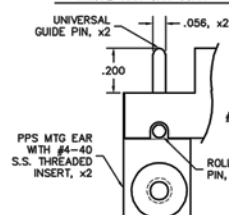


9900

PIN, SURFACE MOUNT SCORED
RM632-XXX-192-9900-9XX

PIN, SURFACE MOUNT UNSCORED
RM632-XXX-392-9900-9XX

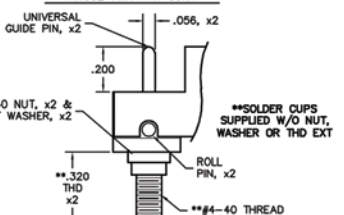
PIN, RIGHT ANGLE
RM672-XXX-3XX-99XX



PIN, FLEX
RM632-XXX-4XX-9900

PIN, STRAIGHT
RM632-XXX-5XX-9900

**PIN, SOLDER CUP
RM632-XXX-17X-99XX

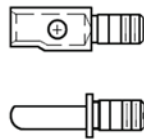
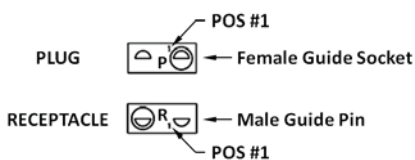


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RM Polarization Codes (2- and 3-Row)

01		09		17		25		33		41		49		57	
02		10		18		26		34		42		50		58	
03		11		19		27		35		43		51		59	
04		12		20		28		36		44		52		60	
05		13		21		29		37		45		53		61	
06		14		22		30		38		46		54		62	
07		15		23		31		39		47		55		63	
08		16		24		32		40		48		56		64	



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.

To order polarization guide set only, see catalog page XXX. 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

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

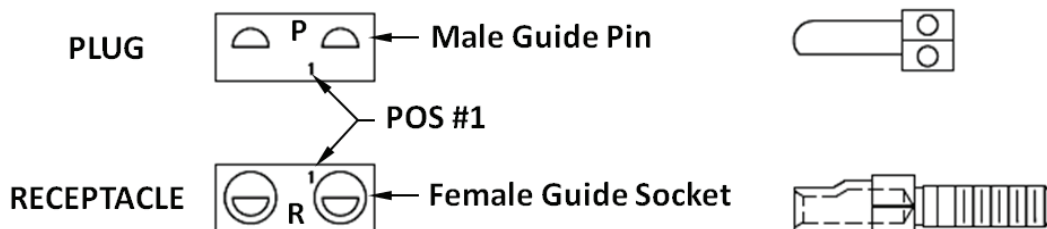
Hardware type shown above catalog order number.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



RM Polarization Codes (4- and 6-Row)

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



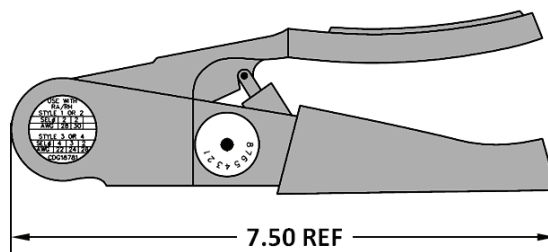
Select the appropriate two-digit number above and include as the last two digits of the hardware code in the part number.

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RA Crimp Instructions

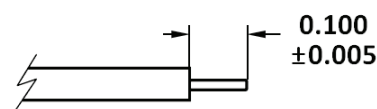
1. SET-UP CRIMP TOOL (CDG16781)

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.



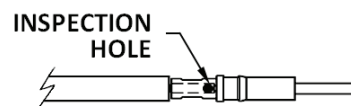
2. STRIP WIRE

Remove insulation from wire exposing 0.100" bare wire length.



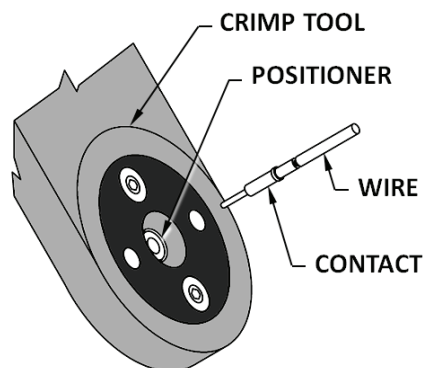
3. INSERT WIRE

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 indentations should be uniform in depth and location.

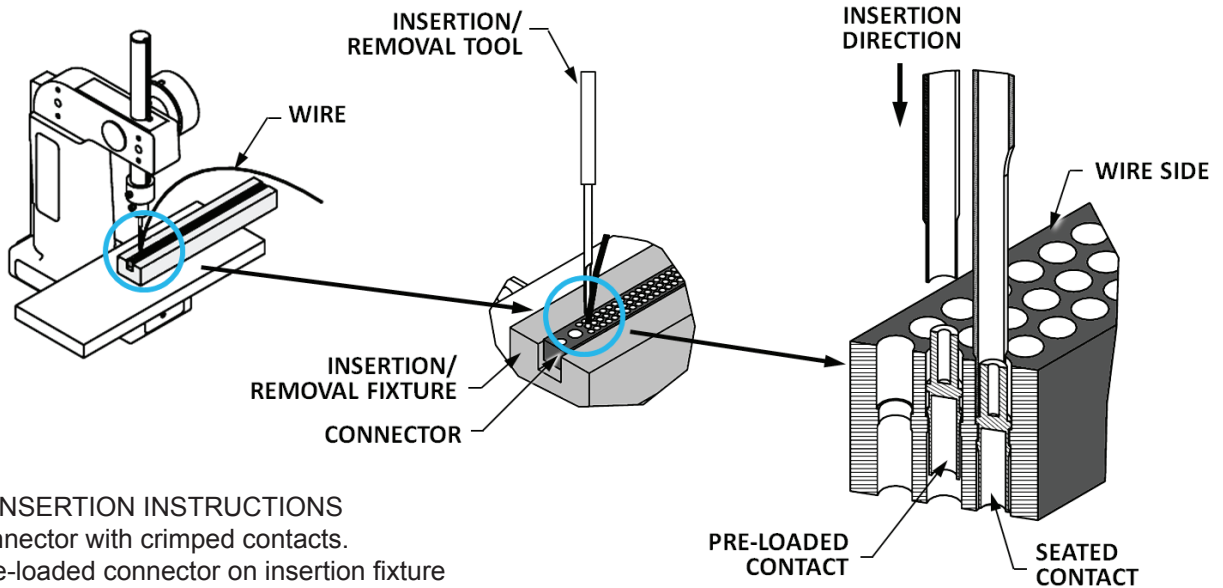


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RA Contact Assembly Instructions

CDG17258 Includes:

Arbor press
Insertion tip
Removal tip
Fixture

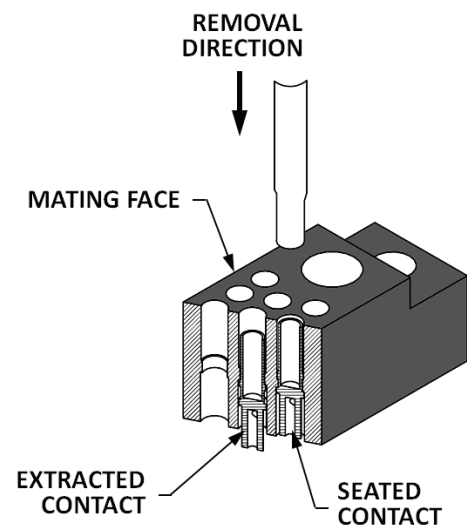
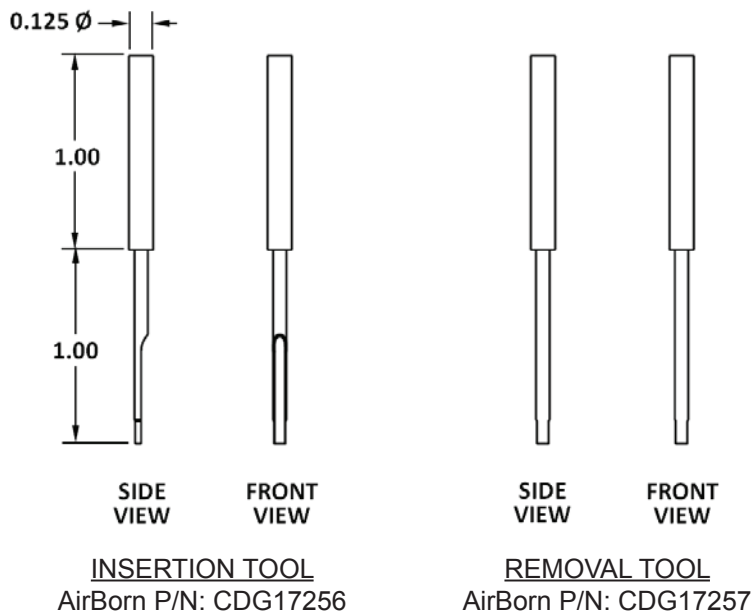


CONTACT INSERTION INSTRUCTIONS

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

CONTACT REMOVAL INSTRUCTIONS

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



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RC Specifications

Contacts	BeCu per ASTM-B768 (BeCu C17410)
Contact Finish	Gold plate per MIL-DTL-45204, over Nickel plate per SAE AMS QQ-N-290
Molded Insulators	Glass filled Polyphenylene Sulfide per MIL-M-24519
Screws	Stainless Steel per ASTM-A582, passivated per ASTM-A967, SAE AMS-QQ-P-35, AMS 2700
Guide Pins/Sockets	BeCu per ASTM-B196, ASTM-B197, Nickel plated per SAE AMS-QQ-N-290
Connector Markings	Per MIL-C-55302. Additionally, end-row contact numbers are identified on 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 = ± 0.010 " Angles = $\pm 5^\circ$ Datums for the contact, hardware and mounting locations are the X & Y centerlines of the contact pattern

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

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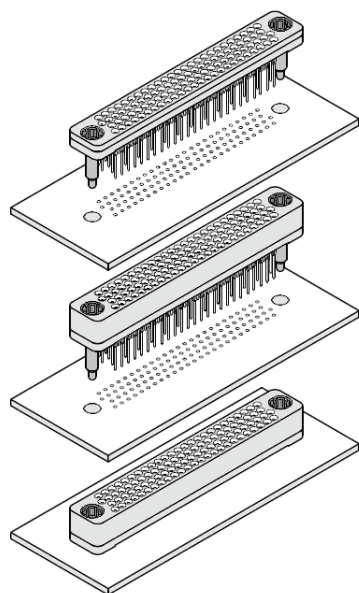
RC Performance (Ref. Modified MIL-C-55302, C-28859, STD-2166 and ANSI/EIA-616)

Contact Rating	3 amps
Operating Temp.	-65° to +125° C (-85° to +257° F)
DWV Test Voltage	750 V, RMS, 60 Hz at sea level
Insulation Resistance	5,000 megohms, minimum at 500 VDC
Durability	500 connector mating cycles
Contact Resistance	3 to 5 milliohms (contact length-dependent)
Contact Engagement Force	4.0 oz (113 g), maximum with 0.0246" diameter test pin
Contact Separation Force	0.5 oz (14 g), minimum with 0.0226" diameter test pin
Total Mating Force	Maximum 4.0 oz (113 g) x number of contacts Average 2.5 oz (70 g) x number of contacts
Compliant Insertion and Removal Forces	Maximum insertion force – 22.5 lbs (10.22 Kg) Minimum retention force after conditioning – 4.5 lbs (2.04 Kg)
Suggested Board and Plated Through Hole Requirements	Board material: FR-4 with 1.0 oz copper Minimum board thickness: 0.058" Drilled hole: 0.0319"–0.0339" Copper-plating thickness: 0.0010", minimum Tin-lead-plating thickness: 0.0003", minimum Electroplated tin-lead composition: 63/37 (Sn/Pb) Finished hole diameter: 0.028" ±0.002

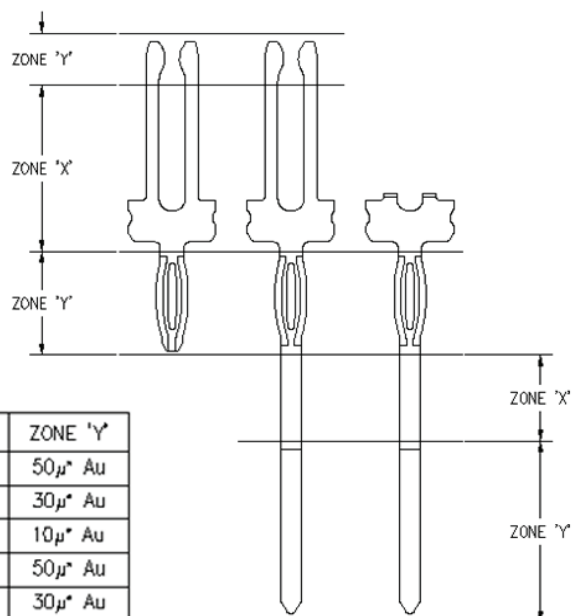
PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.



RC4 Applications: Press-Fit, Stackable

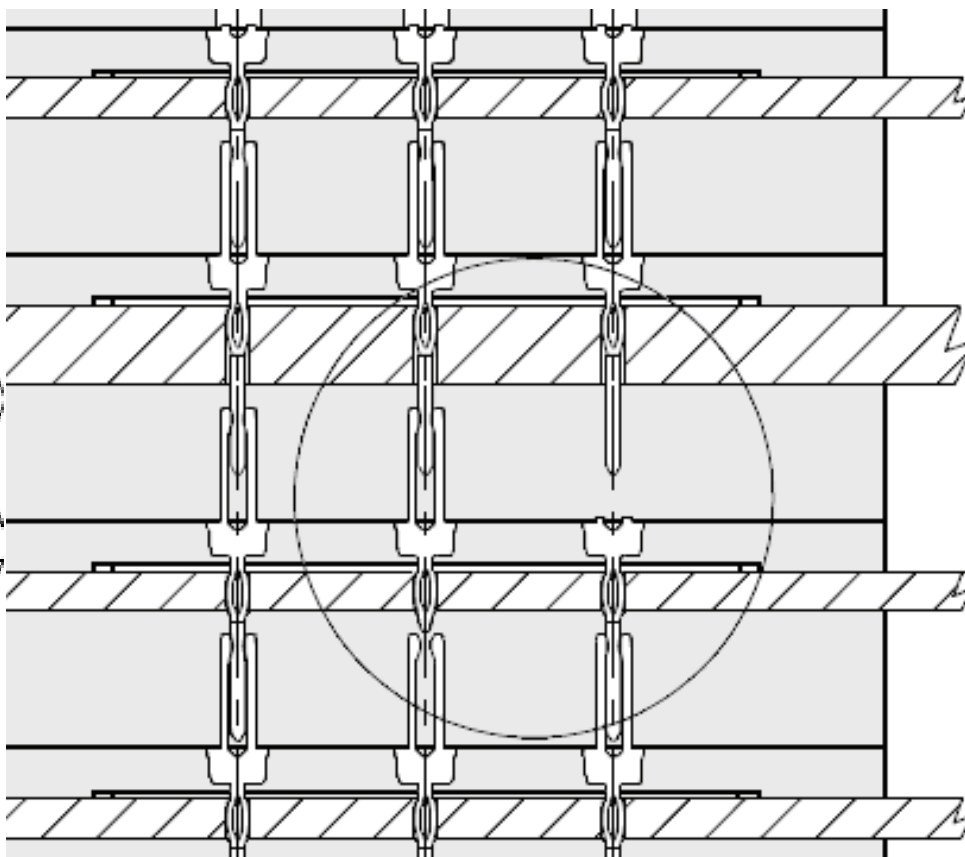
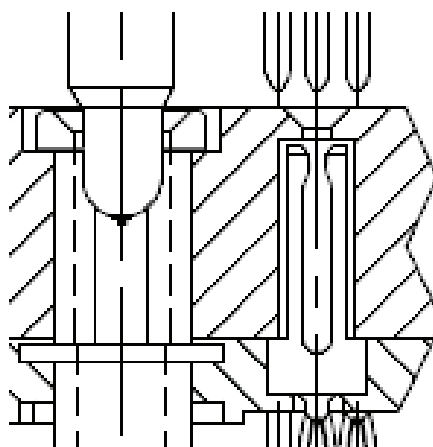


Plating Options



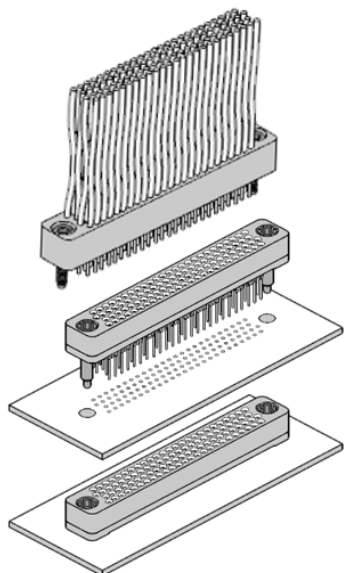
PLATING OPTIONS	ZONE 'X'	ZONE 'Y'
1	50 μ * Au	50 μ * Au
3	30 μ * Au	30 μ * Au
5	10 μ * Au	10 μ * Au
7	10 μ * Au	50 μ * Au
9	10 μ * Au	30 μ * Au

Internal Detail

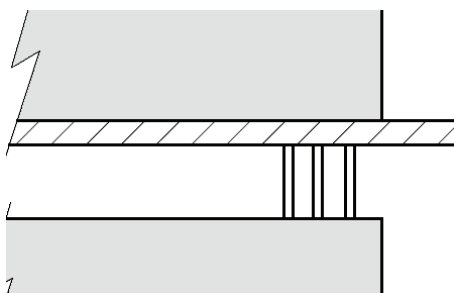
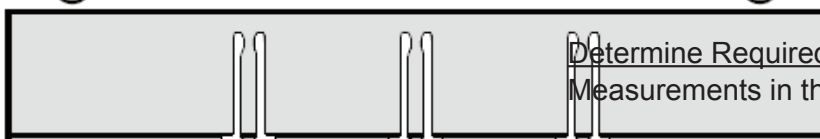
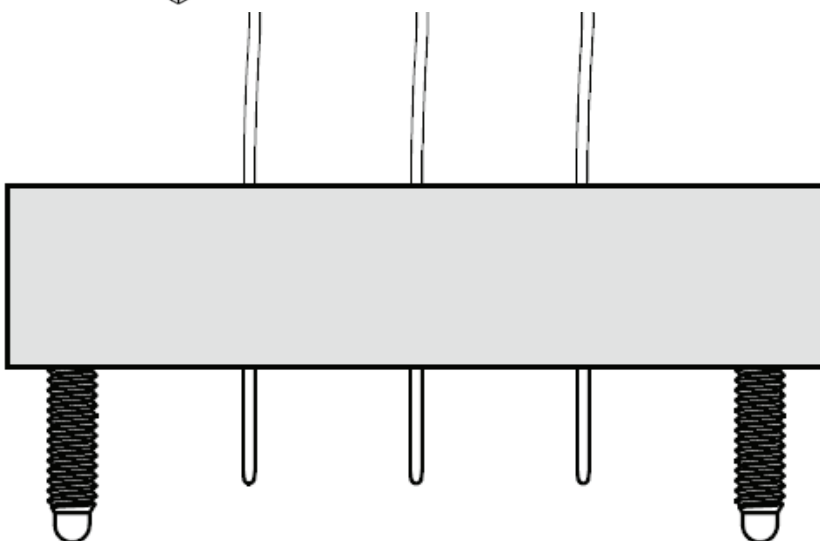
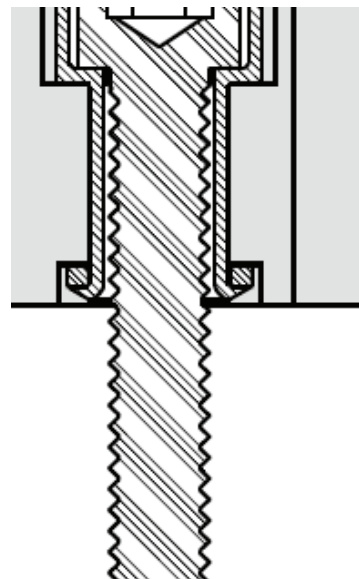


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RC4 Applications: Press-Fit, Stackable with Cable Mate



Internal Detail



Determine Required Termination Lead Length:
Measurements in the example below are in inches.

Dimension A = 0.720

$0.720 - 0.300$ (insulator height) = 0.420

$0.420 + 0.114$ (min. pin engagement) = 0.534

$0.420 + 0.214$ (max. pin engagement) = 0.634

Termination option is the length between the min. and max. pin engagement measurements, so the Required Termination Lead Length for this example is 0.600.

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R-Series / Military Part Number Guide

2-Row Receptacle	
Military Part No.	AirBorn Part No.
M55302/190LA100X	RM222-100-241-5500
M55302/190LA100Y	RM222-100-241-5501
M55302/190LA100F	RM222-100-241-2900
M55302/190LA100S	RM222-100-241-5900
M55302/190LA100N	RM222-100-241-7600
M55302/190LA100L	RM222-100-241-5100
M55302/190LA100M	RM222-100-241-6400
M55302/190LA90X	RM222-090-241-5500
M55302/190LA90Y	RM222-090-241-5501
M55302/190LA90F	RM222-090-241-2900
M55302/190LA90S	RM222-090-241-5900
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M55302/190LA50X	RM222-050-241-5500
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M55302/190LA50F	RM222-050-241-2900

Military Part No.	AirBorn Part No.
M55302/190LA50S	RM222-050-241-5900
M55302/190LA50N	RM222-050-241-7600
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M55302/190LB100M	RM222-100-201-6400
M55302/190LB90X	RM222-090-201-5500

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R-Series / Military Part Number Guide

Military Part No.	AirBorn Part No.
M55302/190LB90Y	RM222-090-201-5501
M55302/190LB90F	RM222-090-201-2900
M55302/190LB90S	RM222-090-201-5900
M55302/190LB90N	RM222-090-201-7600
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Military Part No.	AirBorn Part No.
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M55302/190LC80F	RM222-080-211-2900

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R-Series / Military Part Number Guide

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M55302/190LC80S	RM222-080-211-5900
M55302/190LC80N	RM222-080-211-7600
M55302/190LC80L	RM222-080-211-5100
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M55302/190LC30N	RM222-030-211-7600
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M55302/190LC20X	RM222-020-211-5500

Military Part No.	AirBorn Part No.
M55302/190LC20Y	RM222-020-211-5501
M55302/190LC20F	RM222-020-211-2900
M55302/190LC20S	RM222-020-211-5900
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M55302/190LD80L	RM222-080-221-5100
M55302/190LD80M	RM222-080-221-6400
M55302/190LD70X	RM222-070-221-5500
M55302/190LD70Y	RM222-070-221-5501
M55302/190LD70F	RM222-070-221-2900
M55302/190LD70S	RM222-070-221-5900
M55302/190LD70N	RM222-070-221-7600
M55302/190LD70L	RM222-070-221-5100

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R-Series / Military Part Number Guide

Military Part No.	AirBorn Part No.
M55302/190LD70M	RM222-070-221-6400
M55302/190LD60X	RM222-060-221-5500
M55302/190LD60Y	RM222-060-221-5501
M55302/190LD60F	RM222-060-221-2900
M55302/190LD60S	RM222-060-221-5900
M55302/190LD60N	RM222-060-221-7600
M55302/190LD60L	RM222-060-221-5100
M55302/190LD60M	RM222-060-221-6400
M55302/190LD50X	RM222-050-221-5500
M55302/190LD50Y	RM222-050-221-5501
M55302/190LD50F	RM222-050-221-2900
M55302/190LD50S	RM222-050-221-5900
M55302/190LD50N	RM222-050-221-7600
M55302/190LD50L	RM222-050-221-5100
M55302/190LD50M	RM222-050-221-6400
M55302/190LD40X	RM222-040-221-5500
M55302/190LD40Y	RM222-040-221-5501
M55302/190LD40F	RM222-040-221-2900
M55302/190LD40S	RM222-040-221-5900
M55302/190LD40N	RM222-040-221-7600
M55302/190LD40L	RM222-040-221-5100
M55302/190LD40M	RM222-040-221-6400
M55302/190LD30X	RM222-030-221-5500
M55302/190LD30Y	RM222-030-221-5501
M55302/190LD30F	RM222-030-221-2900
M55302/190LD30S	RM222-030-221-5900
M55302/190LD30N	RM222-030-221-7600
M55302/190LD30L	RM222-030-221-5100
M55302/190LD30M	RM222-030-221-6400
M55302/190LD20X	RM222-020-221-5500
M55302/190LD20Y	RM222-020-221-5501
M55302/190LD20F	RM222-020-221-2900
M55302/190LD20S	RM222-020-221-5900
M55302/190LD20N	RM222-020-221-7600
M55302/190LD20L	RM222-020-221-5100
M55302/190LD20M	RM222-020-221-6400
M55302/190LD10X	RM222-010-221-5500
M55302/190LD10Y	RM222-010-221-5501
M55302/190LD10F	RM222-010-221-2900
M55302/190LD10S	RM222-010-221-5900

Military Part No.	AirBorn Part No.
M55302/190LD10N	RM222-010-221-7600
M55302/190LD10L	RM222-010-221-5100
M55302/190LD10M	RM222-010-221-6400
M55302/190LE100X	RM222-100-251-5500
M55302/190LE100Y	RM222-100-251-5501
M55302/190LE100F	RM222-100-251-2900
M55302/190LE100S	RM222-100-251-5900
M55302/190LE100N	RM222-100-251-7600
M55302/190LE100L	RM222-100-251-5100
M55302/190LE100M	RM222-100-251-6400
M55302/190LE90X	RM222-090-251-5500
M55302/190LE90Y	RM222-090-251-5501
M55302/190LE90F	RM222-090-251-2900
M55302/190LE90S	RM222-090-251-5900
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M55302/190LE60X	RM222-060-251-5500
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M55302/190LE60L	RM222-060-251-5100
M55302/190LE60M	RM222-060-251-6400
M55302/190LE50X	RM222-050-251-5500
M55302/190LE50Y	RM222-050-251-5501

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R-Series / Military Part Number Guide

Military Part No.	AirBorn Part No.
M55302/190LE50F	RM222-050-251-2900
M55302/190LE50S	RM222-050-251-5900
M55302/190LE50N	RM222-050-251-7600
M55302/190LE50L	RM222-050-251-5100
M55302/190LE50M	RM222-050-251-6400
M55302/190LE40X	RM222-040-251-5500
M55302/190LE40Y	RM222-040-251-5501
M55302/190LE40F	RM222-040-251-2900
M55302/190LE40S	RM222-040-251-5900
M55302/190LE40N	RM222-040-251-7600
M55302/190LE40L	RM222-040-251-5100
M55302/190LE40M	RM222-040-251-6400
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M55302/190LE30Y	RM222-030-251-5501
M55302/190LE30F	RM222-030-251-2900
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M55302/190LE20X	RM222-020-251-5500
M55302/190LE20Y	RM222-020-251-5501
M55302/190LE20F	RM222-020-251-2900
M55302/190LE20S	RM222-020-251-5900
M55302/190LE20N	RM222-020-251-7600
M55302/190LE20L	RM222-020-251-5100
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M55302/190LE10X	RM222-010-251-5500
M55302/190LE10Y	RM222-010-251-5501
M55302/190LE10F	RM222-010-251-2900
M55302/190LE10S	RM222-010-251-5900
M55302/190LE10N	RM222-010-251-7600
M55302/190LE10L	RM222-010-251-5100
M55302/190LE10M	RM222-010-251-6400
M55302/190LF100X	RM222-100-271-5500
M55302/190LF100Y	RM222-100-271-5501
M55302/190LF100F	RM222-100-271-2900
M55302/190LF100S	RM222-100-271-5900
M55302/190LF100N	RM222-100-271-7600
M55302/190LF100L	RM222-100-271-5100
M55302/190LF100M	RM222-100-271-6400

Military Part No.	AirBorn Part No.
M55302/190LF90X	RM222-090-271-5500
M55302/190LF90Y	RM222-090-271-5501
M55302/190LF90F	RM222-090-271-2900
M55302/190LF90S	RM222-090-271-5900
M55302/190LF90N	RM222-090-271-7600
M55302/190LF90L	RM222-090-271-5100
M55302/190LF90M	RM222-090-271-6400
M55302/190LF80X	RM222-080-271-5500
M55302/190LF80Y	RM222-080-271-5501
M55302/190LF80F	RM222-080-271-2900
M55302/190LF80S	RM222-080-271-5900
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M55302/190LF40Y	RM222-040-271-5501
M55302/190LF40F	RM222-040-271-2900
M55302/190LF40S	RM222-040-271-5900
M55302/190LF40N	RM222-040-271-7600

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Military Part No.	AirBorn Part No.
M55302/190LF40L	RM222-040-271-5100
M55302/190LF40M	RM222-040-271-6400
M55302/190LF30X	RM222-030-271-5500
M55302/190LF30Y	RM222-030-271-5501
M55302/190LF30F	RM222-030-271-2900
M55302/190LF30S	RM222-030-271-5900
M55302/190LF30N	RM222-030-271-7600
M55302/190LF30L	RM222-030-271-5100
M55302/190LF30M	RM222-030-271-6400
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M55302/190LF20Y	RM222-020-271-5501
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M55302/190LG100X	RM222-100-261-5500
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M55302/190LG90M	RM222-090-261-6400
M55302/190LG80X	RM222-080-261-5500
M55302/190LG80Y	RM222-080-261-5501
M55302/190LG80F	RM222-080-261-2900

Military Part No.	AirBorn Part No.
M55302/190LG80S	RM222-080-261-5900
M55302/190LG80N	RM222-080-261-7600
M55302/190LG80L	RM222-080-261-5100
M55302/190LG80M	RM222-080-261-6400
M55302/190LG70X	RM222-070-261-5500
M55302/190LG70Y	RM222-070-261-5501
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M55302/190LG30N	RM222-030-261-7600
M55302/190LG30L	RM222-030-261-5100
M55302/190LG30M	RM222-030-261-6400
M55302/190LG20X	RM222-020-261-5500

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Military Part No.	AirBorn Part No.
M55302/190LG20Y	RM222-020-261-5501
M55302/190LG20F	RM222-020-261-2900
M55302/190LG20S	RM222-020-261-5900
M55302/190LG20N	RM222-020-261-7600
M55302/190LG20L	RM222-020-261-5100
M55302/190LG20M	RM222-020-261-6400
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M55302/190LH100Y	RM222-100-281-5501
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M55302/190LH70S	RM222-070-281-5900
M55302/190LH70N	RM222-070-281-7600
M55302/190LH70L	RM222-070-281-5100

Military Part No.	AirBorn Part No.
M55302/190LH70M	RM222-070-281-6400
M55302/190LH60X	RM222-060-281-5500
M55302/190LH60Y	RM222-060-281-5501
M55302/190LH60F	RM222-060-281-2900
M55302/190LH60S	RM222-060-281-5900
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M55302/190LH20Y	RM222-020-281-5501
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M55302/190LH20S	RM222-020-281-5900
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M55302/190LH20L	RM222-020-281-5100
M55302/190LH20M	RM222-020-281-6400
M55302/190LH10X	RM222-010-281-5500
M55302/190LH10Y	RM222-010-281-5501
M55302/190LH10F	RM222-010-281-2900
M55302/190LH10S	RM222-010-281-5900

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Military Part No.	AirBorn Part No.
M55302/190LH10N	RM222-010-281-7600
M55302/190LH10L	RM222-010-281-5100
M55302/190LH10M	RM222-010-281-6400

2-Row	Plug
Military Part No.	AirBorn Part No.
M55302/191A100X	RM252-100-311-5500
M55302/191A100Y	RM252-100-311-5501
M55302/191A100F	RM252-100-311-2900
M55302/191A100S	RM252-100-311-5900
M55302/191A100N	RM252-100-311-7600
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M55302/191A60Y	RM252-060-311-5501
M55302/191A60F	RM252-060-311-2900
M55302/191A60S	RM252-060-311-5900

Military Part No.	AirBorn Part No.
M55302/191A60N	RM252-060-311-7600
M55302/191A60L	RM252-060-311-5100
M55302/191A60M	RM252-060-311-6400
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M55302/191A50Y	RM252-050-311-5501
M55302/191A50F	RM252-050-311-2900
M55302/191A50S	RM252-050-311-5900
M55302/191A50N	RM252-050-311-7600
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M55302/191A20X	RM252-020-311-5500
M55302/191A20Y	RM252-020-311-5501
M55302/191A20F	RM252-020-311-2900
M55302/191A20S	RM252-020-311-5900
M55302/191A20N	RM252-020-311-7600
M55302/191A20L	RM252-020-311-5100
M55302/191A20M	RM252-020-311-6400
M55302/191A10X	RM252-010-311-5500
M55302/191A10Y	RM252-010-311-5501
M55302/191A10F	RM252-010-311-2900
M55302/191A10S	RM252-010-311-5900
M55302/191A10N	RM252-010-311-7600
M55302/191A10L	RM252-010-311-5100
M55302/191A10M	RM252-010-311-6400
M55302/191B100X	RM252-100-321-5500
M55302/191B100Y	RM252-100-321-5501

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R-Series / Military Part Number Guide

Military Part No.	AirBorn Part No.
M55302/191B100F	RM252-100-321-2900
M55302/191B100S	RM252-100-321-5900
M55302/191B100N	RM252-100-321-7600
M55302/191B100L	RM252-100-321-5100
M55302/191B100M	RM252-100-321-6400
M55302/191B90X	RM252-090-321-5500
M55302/191B90Y	RM252-090-321-5501
M55302/191B90F	RM252-090-321-2900
M55302/191B90S	RM252-090-321-5900
M55302/191B90N	RM252-090-321-7600
M55302/191B90L	RM252-090-321-5100
M55302/191B90M	RM252-090-321-6400
M55302/191B80X	RM252-080-321-5500
M55302/191B80Y	RM252-080-321-5501
M55302/191B80F	RM252-080-321-2900
M55302/191B80S	RM252-080-321-5900
M55302/191B80N	RM252-080-321-7600
M55302/191B80L	RM252-080-321-5100
M55302/191B80M	RM252-080-321-6400
M55302/191B70X	RM252-070-321-5500
M55302/191B70Y	RM252-070-321-5501
M55302/191B70F	RM252-070-321-2900
M55302/191B70S	RM252-070-321-5900
M55302/191B70N	RM252-070-321-7600
M55302/191B70L	RM252-070-321-5100
M55302/191B70M	RM252-070-321-6400
M55302/191B60X	RM252-060-321-5500
M55302/191B60Y	RM252-060-321-5501
M55302/191B60F	RM252-060-321-2900
M55302/191B60S	RM252-060-321-5900
M55302/191B60N	RM252-060-321-7600
M55302/191B60L	RM252-060-321-5100
M55302/191B60M	RM252-060-321-6400
M55302/191B50X	RM252-050-321-5500
M55302/191B50Y	RM252-050-321-5501
M55302/191B50F	RM252-050-321-2900
M55302/191B50S	RM252-050-321-5900
M55302/191B50N	RM252-050-321-7600
M55302/191B50L	RM252-050-321-5100
M55302/191B50M	RM252-050-321-6400

Military Part No.	AirBorn Part No.
M55302/191B40X	RM252-040-321-5500
M55302/191B40Y	RM252-040-321-5501
M55302/191B40F	RM252-040-321-2900
M55302/191B40S	RM252-040-321-5900
M55302/191B40N	RM252-040-321-7600
M55302/191B40L	RM252-040-321-5100
M55302/191B40M	RM252-040-321-6400
M55302/191B30X	RM252-030-321-5500
M55302/191B30Y	RM252-030-321-5501
M55302/191B30F	RM252-030-321-2900
M55302/191B30S	RM252-030-321-5900
M55302/191B30N	RM252-030-321-7600
M55302/191B30L	RM252-030-321-5100
M55302/191B30M	RM252-030-321-6400
M55302/191B20X	RM252-020-321-5500
M55302/191B20Y	RM252-020-321-5501
M55302/191B20F	RM252-020-321-2900
M55302/191B20S	RM252-020-321-5900
M55302/191B20N	RM252-020-321-7600
M55302/191B20L	RM252-020-321-5100
M55302/191B20M	RM252-020-321-6400
M55302/191B10X	RM252-010-321-5500
M55302/191B10Y	RM252-010-321-5501
M55302/191B10F	RM252-010-321-2900
M55302/191B10S	RM252-010-321-5900
M55302/191B10N	RM252-010-321-7600
M55302/191B10L	RM252-010-321-5100
M55302/191B10M	RM252-010-321-6400
M55302/191C100X	RM252-100-331-5500
M55302/191C100Y	RM252-100-331-5501
M55302/191C100F	RM252-100-331-2900
M55302/191C100S	RM252-100-331-5900
M55302/191C100N	RM252-100-331-7600
M55302/191C100L	RM252-100-331-5100
M55302/191C100M	RM252-100-331-6400
M55302/191C90X	RM252-090-331-5500
M55302/191C90Y	RM252-090-331-5501
M55302/191C90F	RM252-090-331-2900
M55302/191C90S	RM252-090-331-5900
M55302/191C90N	RM252-090-331-7600

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R-Series / Military Part Number Guide

Military Part No.	AirBorn Part No.
M55302/191C90L	RM252-090-331-5100
M55302/191C90M	RM252-090-331-6400
M55302/191C80X	RM252-080-331-5500
M55302/191C80Y	RM252-080-331-5501
M55302/191C80F	RM252-080-331-2900
M55302/191C80S	RM252-080-331-5900
M55302/191C80N	RM252-080-331-7600
M55302/191C80L	RM252-080-331-5100
M55302/191C80M	RM252-080-331-6400
M55302/191C70X	RM252-070-331-5500
M55302/191C70Y	RM252-070-331-5501
M55302/191C70F	RM252-070-331-2900
M55302/191C70S	RM252-070-331-5900
M55302/191C70N	RM252-070-331-7600
M55302/191C70L	RM252-070-331-5100
M55302/191C70M	RM252-070-331-6400
M55302/191C60X	RM252-060-331-5500
M55302/191C60Y	RM252-060-331-5501
M55302/191C60F	RM252-060-331-2900
M55302/191C60S	RM252-060-331-5900
M55302/191C60N	RM252-060-331-7600
M55302/191C60L	RM252-060-331-5100
M55302/191C60M	RM252-060-331-6400
M55302/191C50X	RM252-050-331-5500
M55302/191C50Y	RM252-050-331-5501
M55302/191C50F	RM252-050-331-2900
M55302/191C50S	RM252-050-331-5900
M55302/191C50N	RM252-050-331-7600
M55302/191C50L	RM252-050-331-5100
M55302/191C50M	RM252-050-331-6400
M55302/191C40X	RM252-040-331-5500
M55302/191C40Y	RM252-040-331-5501
M55302/191C40F	RM252-040-331-2900
M55302/191C40S	RM252-040-331-5900
M55302/191C40N	RM252-040-331-7600
M55302/191C40L	RM252-040-331-5100
M55302/191C40M	RM252-040-331-6400
M55302/191C30X	RM252-030-331-5500
M55302/191C30Y	RM252-030-331-5501
M55302/191C30F	RM252-030-331-2900

Military Part No.	AirBorn Part No.
M55302/191C30S	RM252-030-331-5900
M55302/191C30N	RM252-030-331-7600
M55302/191C30L	RM252-030-331-5100
M55302/191C30M	RM252-030-331-6400
M55302/191C20X	RM252-020-331-5500
M55302/191C20Y	RM252-020-331-5501
M55302/191C20F	RM252-020-331-2900
M55302/191C20S	RM252-020-331-5900
M55302/191C20N	RM252-020-331-7600
M55302/191C20L	RM252-020-331-5100
M55302/191C20M	RM252-020-331-6400
M55302/191C10X	RM252-010-331-5500
M55302/191C10Y	RM252-010-331-5501
M55302/191C10F	RM252-010-331-2900
M55302/191C10S	RM252-010-331-5900
M55302/191C10N	RM252-010-331-7600
M55302/191C10L	RM252-010-331-5100
M55302/191C10M	RM252-010-331-6400

3-Row	Receptacle
Military Part No.	AirBorn Part No.
M55302/192LA122X	RM322-122-241-5500
M55302/192LA122Y	RM322-122-241-5501
M55302/192LA122F	RM322-122-241-2900
M55302/192LA122S	RM322-122-241-5900
M55302/192LA122N	RM322-122-241-7600
M55302/192LA122L	RM322-122-241-5100
M55302/192LA122M	RM322-122-241-6400
M55302/192LA152X	RM322-152-241-5500
M55302/192LA152Y	RM322-152-241-5501
M55302/192LA152F	RM322-152-241-2900
M55302/192LA152S	RM322-152-241-5900
M55302/192LA152N	RM322-152-241-7600
M55302/192LA152L	RM322-152-241-5100
M55302/192LA152M	RM322-152-241-6400
M55302/192LB122X	RM322-122-201-5500
M55302/192LB122Y	RM322-122-201-5501
M55302/192LB122F	RM322-122-201-2900

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Military Part No.	AirBorn Part No.
M55302/192LB122S	RM322-122-201-5900
M55302/192LB122N	RM322-122-201-7600
M55302/192LB122L	RM322-122-201-5100
M55302/192LB122M	RM322-122-201-6400
M55302/192LB152X	RM322-152-201-5500
M55302/192LB152Y	RM322-152-201-5501
M55302/192LB152F	RM322-152-201-2900
M55302/192LB152S	RM322-152-201-5900
M55302/192LB152N	RM322-152-201-7600
M55302/192LB152L	RM322-152-201-5100
M55302/192LB152M	RM322-152-201-6400
M55302/192LC122X	RM322-122-211-5500
M55302/192LC122Y	RM322-122-211-5501
M55302/192LC122F	RM322-122-211-2900
M55302/192LC122S	RM322-122-211-5900
M55302/192LC122N	RM322-122-211-7600
M55302/192LC122L	RM322-122-211-5100
M55302/192LC122M	RM322-122-211-6400
M55302/192LC152X	RM322-152-211-5500
M55302/192LC152Y	RM322-152-211-5501
M55302/192LC152F	RM322-152-211-2900
M55302/192LC152S	RM322-152-211-5900
M55302/192LC152N	RM322-152-211-7600
M55302/192LC152L	RM322-152-211-5100
M55302/192LC152M	RM322-152-211-6400
M55302/192LD122X	RM322-122-221-5500
M55302/192LD122Y	RM322-122-221-5501
M55302/192LD122F	RM322-122-221-2900
M55302/192LD122S	RM322-122-221-5900
M55302/192LD122N	RM322-122-221-7600
M55302/192LD122L	RM322-122-221-5100
M55302/192LD122M	RM322-122-221-6400
M55302/192LD152X	RM322-152-221-5500
M55302/192LD152Y	RM322-152-221-5501
M55302/192LD152F	RM322-152-221-2900
M55302/192LD152S	RM322-152-221-5900
M55302/192LD152N	RM322-152-221-7600
M55302/192LD152L	RM322-152-221-5100
M55302/192LD152M	RM322-152-221-6400
M55302/192LE122X	RM322-122-251-5500

Military Part No.	AirBorn Part No.
M55302/192LE122Y	RM322-122-251-5501
M55302/192LE122F	RM322-122-251-2900
M55302/192LE122S	RM322-122-251-5900
M55302/192LE122N	RM322-122-251-7600
M55302/192LE122L	RM322-122-251-5100
M55302/192LE122M	RM322-122-251-6400
M55302/192LE152X	RM322-152-251-5500
M55302/192LE152Y	RM322-152-251-5501
M55302/192LE152F	RM322-152-251-2900
M55302/192LE152S	RM322-152-251-5900
M55302/192LE152N	RM322-152-251-7600
M55302/192LE152L	RM322-152-251-5100
M55302/192LE152M	RM322-152-251-6400
M55302/192LF122X	RM322-122-271-5500
M55302/192LF122Y	RM322-122-271-5501
M55302/192LF122F	RM322-122-271-2900
M55302/192LF122S	RM322-122-271-5900
M55302/192LF122N	RM322-122-271-7600
M55302/192LF122L	RM322-122-271-5100
M55302/192LF122M	RM322-122-271-6400
M55302/192LF152X	RM322-152-271-5500
M55302/192LF152Y	RM322-152-271-5501
M55302/192LF152F	RM322-152-271-2900
M55302/192LF152S	RM322-152-271-5900
M55302/192LF152N	RM322-152-271-7600
M55302/192LF152L	RM322-152-271-5100
M55302/192LF152M	RM322-152-271-6400
M55302/192LG122X	RM322-122-261-5500
M55302/192LG122Y	RM322-122-261-5501
M55302/192LG122F	RM322-122-261-2900
M55302/192LG122S	RM322-122-261-5900
M55302/192LG122N	RM322-122-261-7600
M55302/192LG122L	RM322-122-261-5100
M55302/192LG122M	RM322-122-261-6400
M55302/192LG152X	RM322-152-261-5500
M55302/192LG152Y	RM322-152-261-5501
M55302/192LG152F	RM322-152-261-2900
M55302/192LG152S	RM322-152-261-5900
M55302/192LG152N	RM322-152-261-7600
M55302/192LG152L	RM322-152-261-5100

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R-Series / Military Part Number Guide

Military Part No.	AirBorn Part No.
M55302/192LG152M	RM322-152-261-6400
M55302/192LH122X	RM322-122-281-5500
M55302/192LH122Y	RM322-122-281-5501
M55302/192LH122F	RM322-122-281-2900
M55302/192LH122S	RM322-122-281-5900
M55302/192LH122N	RM322-122-281-7600
M55302/192LH122L	RM322-122-281-5100
M55302/192LH122M	RM322-122-281-6400
M55302/192LH152X	RM322-152-281-5500
M55302/192LH152Y	RM322-152-281-5501
M55302/192LH152F	RM322-152-281-2900
M55302/192LH152S	RM322-152-281-5900
M55302/192LH152N	RM322-152-281-7600
M55302/192LH152L	RM322-152-281-5100
M55302/192LH152M	RM322-152-281-6400

3-Row	Plug
Military Part No.	AirBorn Part No.
M55302/193A122X	RM352-122-311-5500
M55302/193A122Y	RM352-122-311-5501
M55302/193A122F	RM352-122-311-2900
M55302/193A122S	RM352-122-311-5900
M55302/193A122N	RM352-122-311-7600
M55302/193A122L	RM352-122-311-5100
M55302/193A122M	RM352-122-311-6400
M55302/193A152X	RM352-152-311-5500
M55302/193A152Y	RM352-152-311-5501
M55302/193A152F	RM352-152-311-2900
M55302/193A152S	RM352-152-311-5900
M55302/193A152N	RM352-152-311-7600
M55302/193A152L	RM352-152-311-5100
M55302/193A152M	RM352-152-311-6400
M55302/193B122X	RM352-122-321-5500
M55302/193B122Y	RM352-122-321-5501
M55302/193B122F	RM352-122-321-2900
M55302/193B122S	RM352-122-321-5900
M55302/193B122N	RM352-122-321-7600
M55302/193B122L	RM352-122-321-5100

Military Part No.	AirBorn Part No.
M55302/193B122M	RM352-122-321-6400
M55302/193B152X	RM352-152-321-5500
M55302/193B152Y	RM352-152-321-5501
M55302/193B152F	RM352-152-321-2900
M55302/193B152S	RM352-152-321-5900
M55302/193B152N	RM352-152-321-7600
M55302/193B152L	RM352-152-321-5100
M55302/193B152M	RM352-152-321-6400
M55302/193C122X	RM352-122-331-5500
M55302/193C122Y	RM352-122-331-5501
M55302/193C122F	RM352-122-331-2900
M55302/193C122S	RM352-122-331-5900
M55302/193C122N	RM352-122-331-7600
M55302/193C122L	RM352-122-331-5100
M55302/193C122M	RM352-122-331-6400
M55302/193C152X	RM352-152-331-5500
M55302/193C152Y	RM352-152-331-5501
M55302/193C152F	RM352-152-331-2900
M55302/193C152S	RM352-152-331-5900
M55302/193C152N	RM352-152-331-7600
M55302/193C152L	RM352-152-331-5100
M55302/193C152M	RM352-152-331-6400

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