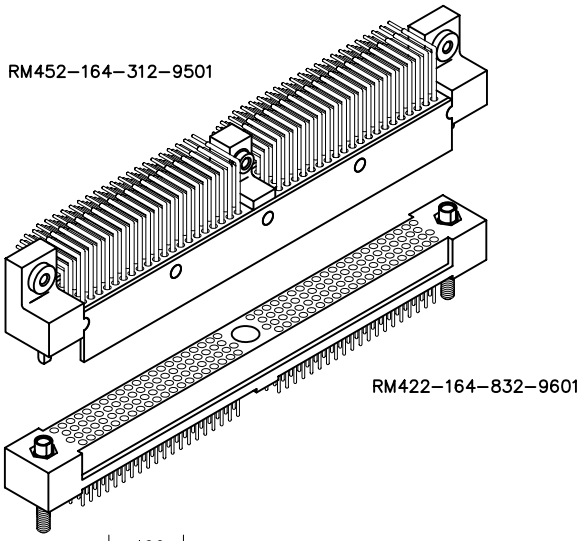
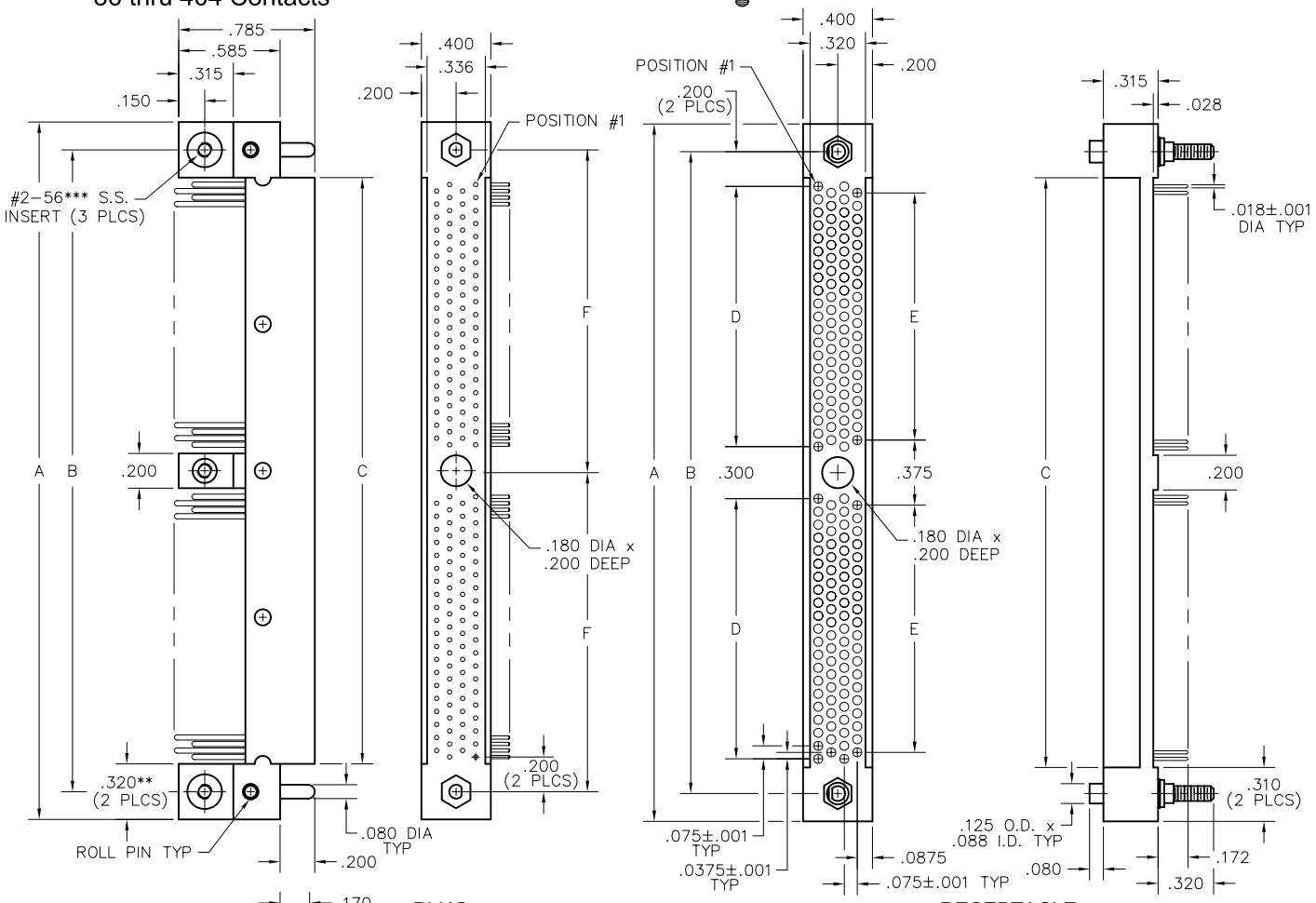
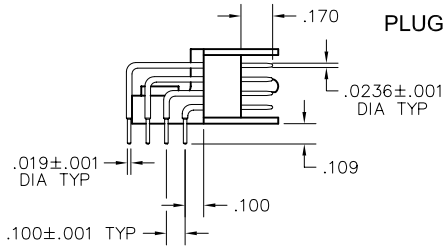
AirBorn

4 · ROW
Daughterboard to Motherboard or Chassis
.075"
RM4
86 thru 404 Contacts





PLUG



RECEPTACLE

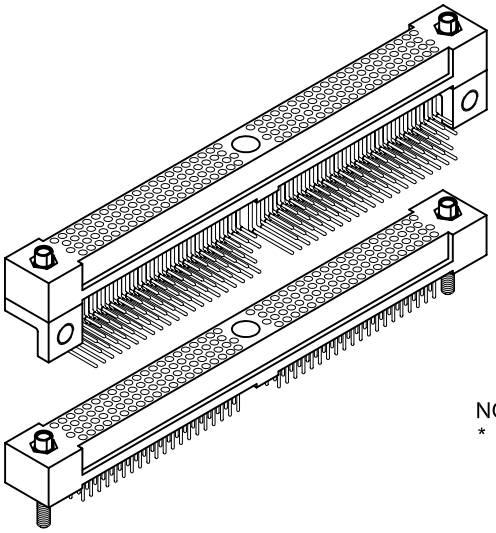
SIZE	DIMENSIONS							
	A		B	C		D	E	F
	PLUG	RCPT		PLUG	RCPT			
86*	2.255	2.295	1.975	1.655	1.675	1.575	1.500	–
110*	2.745	2.745	2.425	2.105	2.125	2.025	1.950	–
164	4.020	4.020	3.700	3.380	3.400	1.500	1.425	1.850
196	4.620	4.620	4.300	3.980	4.000	1.800	1.725	2.150
204	4.770	4.770	4.450	4.130	4.150	1.875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

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

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

PLUG	RECEPTACLE
SERIES	
RM .075" Screw Machine PC Connector	RM .075" Screw Machine PC Connector
BODY	
4 4-Row	4 4-Row
BODY STYLE:	BODY STYLE:
5 Plug, right angle, with mounting ears	2 Receptacle, straight, without mounting ears
BODY MATERIAL:	BODY MATERIAL:
2 Polyphenylene sulfide (PPS)	2 Polyphenylene sulfide (PPS)
SIZE	
086, 110, 164, 196, 204, 220, 250, 276, 300, 404	086, 110, 164, 196, 204, 220, 250, 276, 300, 404
CONTACTS	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
31 Pin, right angle, dip solder, .109" x .019" dia	75 Socket, straight, dip solder, .250" x .018" dia
32 Pin, right angle, dip solder, .140" x .019" dia	76 Socket, straight, solder cup
33 Pin, right angle, dip solder, .172" x .019" dia	77 Socket, straight, flex, .093" x .017" dia
34 Pin, right angle, dip solder, .250" x .019" dia	78 Socket, straight, wire wrap®, .500" x .018" sq
	79 Socket, straight, wire wrap®, .375" x .018" sq
	81 Socket, straight, dip solder, .109" x .018" dia
	82 Socket, straight, dip solder, .140" x .018" dia
	83 Socket, straight, dip solder, .172" x .018" dia
	87 Socket, straight, press-fit, .188" (Board: .093" - .125" thk)
	88 Socket, straight, press-fit, .308" (Board: .156" - .200" thk)
	89 Socket, straight, press-fit, .388" (Board: .250"+ thk)
PLATING OPTIONS:	PLATING OPTIONS:
1 Gold plated termination	1 Gold plated termination
2 Pre-tinned termination, SnPb alloy ☒	2 Pre-tinned termination, SnPb alloy (dip solder options only) ☒
3 Pre-tinned termination, SAC305 alloy	3 Pre-tinned termination, SAC305 alloy (dip solder options only)
HARDWARE	
STYLE OF HARDWARE:	STYLE OF HARDWARE:
0256 None	0256 None
83 Fixed jackset, reversed, installed	82 Hex turning jackset, reversed, installed, .200 knob
90 Guide pins, full round, installed	83 Fixed jackset, reversed, installed, #2-56 x .247" thd ext
93 Fixed jackset, installed	84 Fixed jackset, reversed, installed, #2-56 x .320" thd ext
95 Guide pins, polarized, unassembled	91 Guide sockets, full round, installed, #2-56 x .247" thd ext
9501 - 9536 Guide pins, polarized, installed	92 Hex turning jackset, installed, .200 knob
99 Guide pins, universal, installed	93 Fixed jackset, installed, #2-56 x .247" thd ext
	94 Fixed jackset, installed, #2-56 x .320" thd ext
	96 Guide sockets, polarized, unassembled, #2-56 x .320" thd ext
	9601 - 9636 Guide sockets, polarized, installed, #2-56 x .320" thd ext
	97 Guide sockets, polarized, unassembled, #2-56 x .247" thd ext
	9701 - 9736 Guide sockets, polarized, installed, #2-56 x .247" thd ext
	98 Guide sockets, universal, installed, #2-56 x .247" thd ext
POLARIZATION:	POLARIZATION
00 None	00 None
01 thru 36 are special identifiers, see page R-57	01 thru 36 are special identifiers, see page R-57

☒ = Option not RoHS compliant



DIMENSIONS			
SIZE	A	B	C
86*	1.975	1.575	1.500
110*	2.425	2.025	1.950
164	3.700	1.500	1.425
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220	4.750	2.025	1.950
250*	5.050	4.650	4.575
276	5.800	2.550	2.475
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404	8.200	3.750	3.675

NOTES:
* = Single section, no center mounting hole

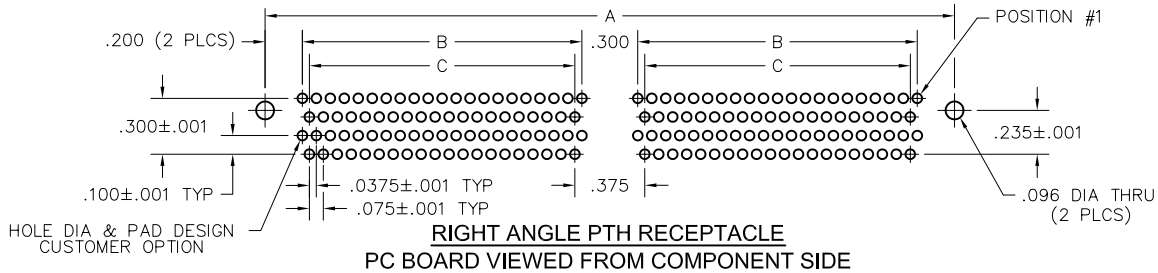
AirBorn

4 • ROW
Right Angle PTH Rcpt
Straight PTH Rcpt
.075"

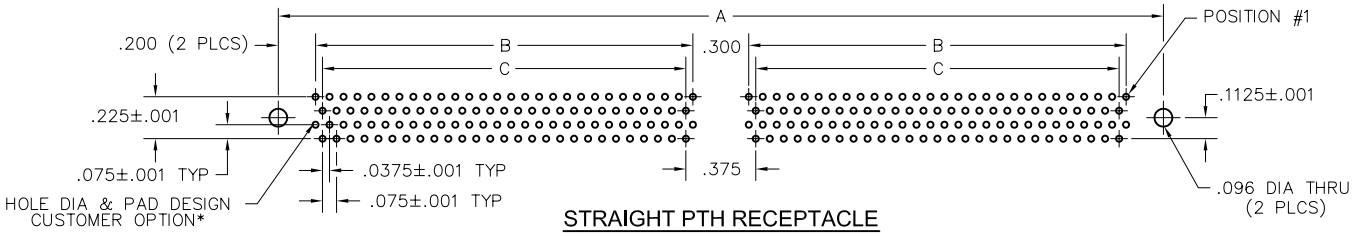
RM4

86 thru 404 Contacts

Recommended Board Layout



RIGHT ANGLE PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE



STRAIGHT PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE

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

SIZE	CONTACT ID	SIZE	CONTACT ID
86*	22 21 20 / 3 2 1 43 42 41 / 25 24 23 65 64 63 / 46 45 44 86 85 84 / 68 67 66	220	56 55 54 / 31 30 29 / 28 27 26 / 3 2 1 110 109 108 / 86 85 84 / 83 82 81 / 59 58 57 166 165 164 / 141 140 139 / 138 137 136 / 113 112 111 220 219 218 / 196 195 194 / 193 192 191 / 169 168 167
110*	28 27 26 / 3 2 1 55 54 53 / 31 30 29 83 82 81 / 58 57 56 110 109 108 / 86 85 84	250*	63 62 61 / 3 2 1 125 124 123 / 66 65 64 188 187 186 / 128 127 126 250 249 248 / 191 190 189
164	42 41 40 / 24 23 22 / 21 20 19 / 3 2 1 82 81 80 / 65 64 63 / 62 61 60 / 45 44 43 124 123 122 / 106 105 104 / 103 102 101 / 85 84 83 164 163 162 / 147 146 145 / 144 143 142 / 127 126 125	276	70 69 68 / 38 37 36 / 35 34 33 / 3 2 1 138 137 136 / 107 106 105 / 104 103 102 / 73 72 71 208 207 206 / 176 175 174 / 173 172 171 / 141 140 139 276 275 274 / 245 244 243 / 242 241 240 / 211 210 209
196	50 49 48 / 28 27 26 / 25 24 23 / 3 2 1 98 97 96 / 77 76 75 / 74 73 72 / 53 52 51 148 147 146 / 126 125 124 / 123 122 121 / 101 100 99 196 195 194 / 175 174 173 / 172 171 170 / 151 150 149	300	76 75 74 / 41 40 39 / 38 37 36 / 3 2 1 150 149 148 / 116 115 114 / 113 112 111 / 79 78 77 226 225 224 / 191 190 189 / 188 187 186 / 153 152 151 300 299 298 / 266 265 264 / 263 262 261 / 229 228 227
204	52 51 50 / 29 28 27 / 26 25 24 / 3 2 1 102 101 100 / 80 79 78 / 77 76 75 / 55 54 53 154 153 152 / 131 130 129 / 128 127 126 / 105 104 103 204 203 202 / 182 181 180 / 179 178 177 / 157 156 155	404	202 200 198 / 106 104 102 / 101 99 97 / 5 3 1 201 199 197 / 107 105 103 / 100 98 96 / 6 4 2 404 402 400 / 308 306 304 / 303 301 299 / 207 205 203 403 401 399 / 309 307 305 / 302 300 298 / 208 206 204

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