

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



891-064 and 891-065 Rear Panel Mount, Gasket-Sealed, Right-Angle Thru-Hole PCB, Thread Mount

DUAL-ROW RECTANGULAR CONNECTORS

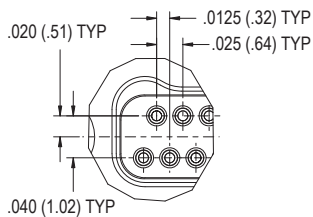


Rear Panel Mount Right-Angle Thru-Hole Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with female threads. Gasket seals available in fluorosilicone, Cho-Seal 1298 or Cho-Seal 6503. For replacement gaskets see 899-015.

Choose Titanium or Stainless Steel Shells in twelve layouts from 9 to 91 contacts. Intermateable with any MIL-DTL-32139 type connector or corresponding Glenair Series 891 Dual-Row metal shell nanominiature connector. Pre-Tinned PC Tails are coated with Sn63Pb37 or Sn60Pb40 tin-lead for excellent solderability.

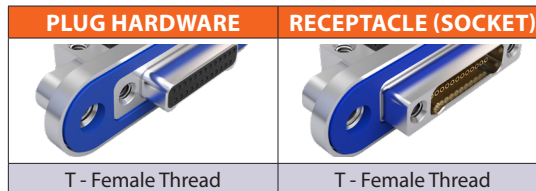
HOW TO ORDER		891-064	-25P	S	-BRT	1	T	-01	M
Sample Part Number									
Series	891-064 = Rear Panel Mount, Right-Angle Thru-Hole, PCB Mount Plug 891-065 = Rear Panel Mount, Right-Angle Thru-Hole, PCB Mount Receptacle								
Insert Arrangement/ Contact Type	Pins (891-064 Plugs): 9P, 15P, 21P, 25P, 31P, 37P, 41P, 51P, 65P, 69P, 85P, 91P Sockets (891-065 Receptacles): 9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85S, 91S								
Shell Material and Finish	T = Titanium Shell, Unplated S = Stainless Steel Shell, Passivated								
Termination Type	BRT = Board Right-Angle Thru-Hole								
PC Tail Length	1 = .110 (2.79) 2 = .172 (4.37) 3 = .140 (3.56)								
Hardware Option	T = Female Threads (#0-80 for size 9-69, #2-56 for size 85 & 91)								
Gasket Material	Omit for No Gasket 01 = Fluorosilicone IAW MIL-DTL25988 Type II, Class I, Grade 60 02 = Passivated Silver Plated Aluminum Filled Fluorosilicone IAW MIL-DTL-83528, Type D (Cho-Seal 1298 or Equivalent) 03 = Nickel Plated Aluminum Filled Fluorosilicone, (Cho-Seal 6503 or Equivalent)								
Panel/PCB Mounting Thread Option	Omit for panel mounting #2-56 UNC-2B/ PCB Mounting #0-80 UNF-2B Sizes 9-69, #2-56 UNC-2B Size 85 and 91 M = Panel Mounting M2 x 0.4-6H/PCB Mounting M1.6 x 0.35-6H Sizes 9-69, M2 x 0.4=6H size 85 & 91								

DETAIL A



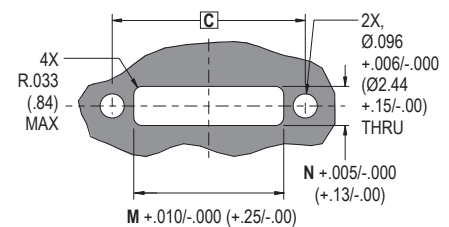
NOTES

- Material and Finish:
 - Shell: see part number break down
 - Insulator: LCP/N/A
 - Contacts: gold alloy / unplated
 - Pre-tinned PC tails: Coated with Sn63Pb37 or Sn60Pb40 tin-lead
- Inspect and test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/3 and /4
- Panel cutout is sized to allow connector mounting with either lobes up or down orientation



PERFORMANCE SPECIFICATIONS	
Contact Spacing: .025" (0.64) contact centers	Shock: 100 g's, IAW EIA-364-27, Condition G
Current Rating: 1 AMP maximum tested per EIA-364-70	Durability: 200 mating cycles per test procedure EIA-364-09
DWV: 250 VAC RMS sea level, 100 VAC RMS 70,000 feet per EIA-364 Procedure 20	Corrosion Resistance: 48 hours salt spray IAW EIA-364-26, Condition B
Insulation Resistance: 5000 Megohms minimum test voltage 100 VDC, per EIA-364 Procedure 21	Humidity: 240 hours, IAW EIA-364-31, Test Condition B
Operating Temperature: -55° C. to +125° C.	Contact Engaging/ Separation Force: 5 ounce maximum, 0.4 ounce minimum
Contact Resistance: 71 millivolt drop maximum, 1 AMP current, any catalog supported wire type	Thermal Vacuum Outgassing: Total mass loss (TML) 1.0% max., volatile condensable material (VCM) 0.1% max. IAW ASTM E595
Vibration: 20 g's, IAW EIA-364-28, Condition IV	

PANEL CUT-OUT DIMENSIONS



Shell Size	C	M	N
9	.566 (14.38)	.395 (10.03)	.155 (3.94)
15	.641 (16.28)	.470 (11.94)	.155 (3.94)
21	.716 (18.19)	.545 (13.84)	.155 (3.94)
25	.766 (19.46)	.595 (15.11)	.155 (3.94)
31	.841 (21.36)	.670 (17.02)	.155 (3.94)
37	.916 (23.27)	.745 (18.92)	.155 (3.94)
41	.966 (24.54)	.795 (20.19)	.155 (3.94)
51	1.091 (27.71)	.920 (23.37)	.155 (3.94)
65	1.266 (32.16)	1.095 (27.81)	.155 (3.94)
69	1.316 (33.43)	1.145 (29.08)	.155 (3.94)
85	1.568 (39.83)	1.397 (35.48)	.180 (4.57)
91	1.643 (41.73)	1.472 (37.39)	.180 (4.57)

Recommended Panel thickness .100 (2.54) max

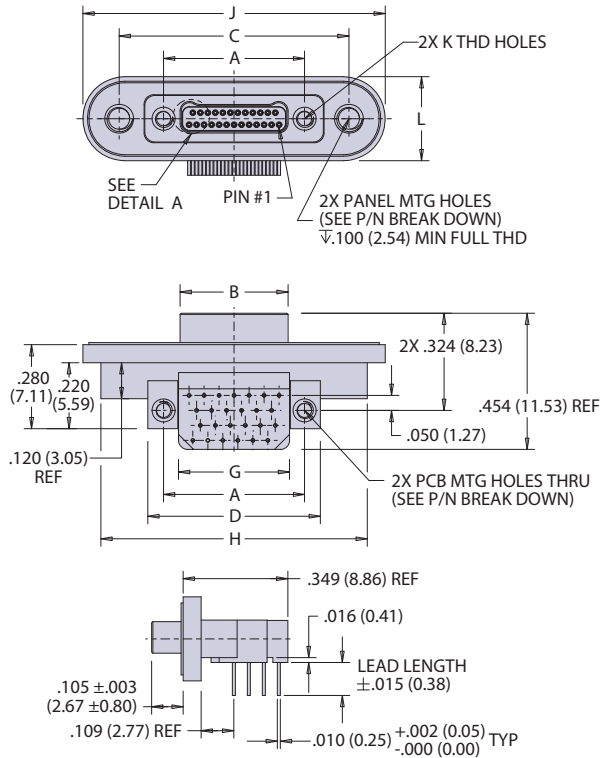
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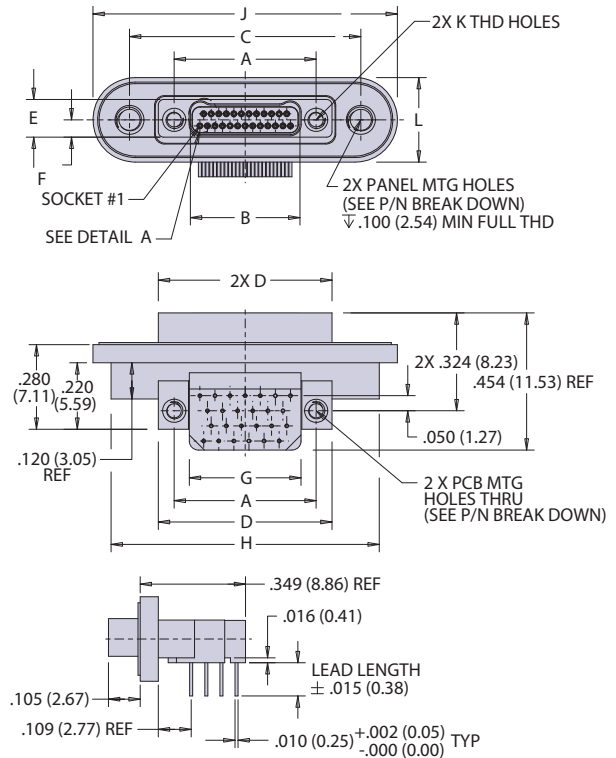
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DIMENSIONS

891-064 Plug (Pin) Connectors



891-065 Receptacle (Socket) Connectors



Layout	A BSC	B BSC	C BSC	D	E	F	G	H	J	K	L
9P	.270 (6.86)	.160 (4.06)	.566 (14.38)	.375 (9.53)	.125 (3.18)	--	.170 (4.32)	.688 (17.48)	.808 (20.52)	#0-80 UNF-2B	.280 (7.11)
9S	.270 (6.86)	.163 (4.14)	.566 (14.38)	.375 (9.53)	.125 (3.18)	.0575 (1.46)	.170 (4.32)	.688 (17.48)	.808 (20.52)	#0-80 UNF-2B	.280 (7.11)
15P	.345 (8.76)	.235 (5.97)	.641 (16.28)	.450 (11.43)	.125 (3.18)	--	.245 (6.22)	.763 (19.38)	.883 (22.43)	#0-80 UNF-2B	.280 (7.11)
15S	.345 (8.76)	.238 (6.05)	.641 (16.28)	.450 (11.43)	.125 (3.18)	.0575 (1.46)	.245 (6.22)	.763 (19.38)	.883 (22.43)	#0-80 UNF-2B	.280 (7.11)
21P	.420 (10.67)	.310 (7.87)	.716 (18.19)	.525 (13.34)	.125 (3.18)	--	.320 (8.13)	.838 (21.29)	.958 (24.33)	#0-80 UNF-2B	.280 (7.11)
21S	.420 (10.67)	.313 (7.95)	.716 (18.19)	.525 (13.34)	.125 (3.18)	.0575 (1.46)	.320 (8.13)	.838 (21.29)	.958 (24.33)	#0-80 UNF-2B	.280 (7.11)
25P	.470 (11.94)	.360 (9.14)	.766 (19.46)	.575 (14.61)	.125 (3.18)	--	.370 (9.40)	.888 (22.56)	1.008 (25.60)	#0-80 UNF-2B	.280 (7.11)
25S	.470 (11.94)	.363 (9.22)	.766 (19.46)	.575 (14.61)	.125 (3.18)	.0575 (1.46)	.370 (9.40)	.888 (22.56)	1.008 (25.60)	#0-80 UNF-2B	.280 (7.11)
31P	.545 (13.84)	.435 (11.05)	.841 (21.36)	.650 (16.51)	.125 (3.18)	--	.445 (11.30)	.963 (24.46)	1.083 (27.51)	#0-80 UNF-2B	.280 (7.11)
31S	.545 (13.84)	.438 (11.13)	.841 (21.36)	.650 (16.51)	.125 (3.18)	.0575 (1.46)	.445 (11.30)	.963 (24.46)	1.083 (27.51)	#0-80 UNF-2B	.280 (7.11)
37P	.620 (15.75)	.510 (12.95)	.916 (23.27)	.725 (18.42)	.125 (3.18)	--	.520 (13.21)	1.038 (26.37)	1.158 (29.41)	#0-80 UNF-2B	.280 (7.11)
37S	.620 (15.75)	.513 (13.03)	.916 (23.27)	.725 (18.42)	.125 (3.18)	.0575 (1.46)	.520 (13.21)	1.038 (26.37)	1.158 (29.41)	#0-80 UNF-2B	.280 (7.11)
41P	.670 (17.02)	.560 (14.22)	.966 (24.54)	.775 (19.69)	.125 (3.18)	--	.570 (14.48)	1.088 (27.64)	1.208 (30.68)	#0-80 UNF-2B	.280 (7.11)
41S	.670 (17.02)	.563 (14.30)	.966 (24.54)	.775 (19.69)	.125 (3.18)	.0575 (1.46)	.570 (14.48)	1.088 (27.64)	1.208 (30.68)	#0-80 UNF-2B	.280 (7.11)
51P	.795 (20.19)	.685 (17.40)	1.091 (27.71)	.900 (22.86)	.125 (3.18)	--	.695 (17.65)	1.213 (30.81)	1.333 (33.86)	#0-80 UNF-2B	.280 (7.11)
51S	.795 (20.19)	.688 (17.48)	1.091 (27.71)	.900 (22.86)	.125 (3.18)	.0575 (1.46)	.695 (17.65)	1.213 (30.81)	1.333 (33.86)	#0-80 UNF-2B	.280 (7.11)
65P	.970 (24.64)	.860 (21.84)	1.266 (32.16)	1.075 (27.31)	.125 (3.18)	--	.870 (22.10)	1.388 (35.26)	1.508 (38.30)	#0-80 UNF-2B	.280 (7.11)
65S	.970 (24.64)	.863 (21.92)	1.266 (32.16)	1.075 (27.31)	.125 (3.18)	.0575 (1.46)	.870 (22.10)	1.388 (35.26)	1.508 (38.30)	#0-80 UNF-2B	.280 (7.11)
69P	1.020 (25.91)	.910 (23.11)	1.316 (33.43)	1.125 (28.58)	.125 (3.18)	--	.920 (23.37)	1.438 (36.53)	1.558 (39.57)	#0-80 UNF-2B	.280 (7.11)
69S	1.020 (25.91)	.913 (23.19)	1.316 (33.43)	1.125 (28.58)	.125 (3.18)	.0575 (1.46)	.920 (23.37)	1.438 (36.53)	1.558 (39.57)	#0-80 UNF-2B	.280 (7.11)
85P	1.246 (31.65)	1.110 (28.19)	1.568 (39.83)	1.377 (34.98)	.150 (3.81)	--	1.120 (28.45)	1.690 (42.93)	1.810 (45.97)	#2-56 UNC-2B	.305 (7.75)
85S	1.246 (31.65)	1.113 (28.27)	1.568 (39.83)	1.377 (34.98)	.150 (3.81)	.0700 (1.78)	1.120 (28.45)	1.690 (42.93)	1.810 (45.97)	#2-56 UNC-2B	.305 (7.75)
91P	1.321 (33.55)	1.185 (30.10)	1.643 (41.73)	1.452 (36.88)	.150 (3.81)	--	1.195 (30.35)	1.765 (44.83)	1.885 (47.88)	#2-56 UNC-2B	.305 (7.75)
91S	1.321 (33.55)	1.188 (30.18)	1.643 (41.73)	1.452 (36.88)	.150 (3.81)	.0700 (1.78)	1.195 (30.35)	1.765 (44.83)	1.885 (47.88)	#2-56 UNC-2B	.305 (7.75)

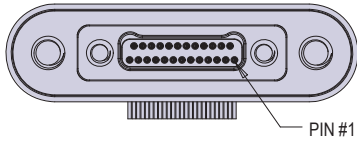
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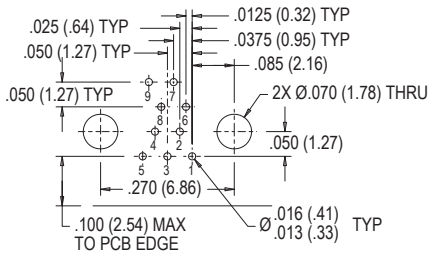
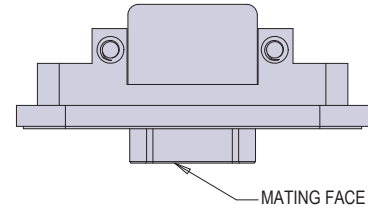


891-064 Rear Panel Mount, Gasket-Sealed, RA Thru-Hole PCB Thread Mount - Plug Footprint

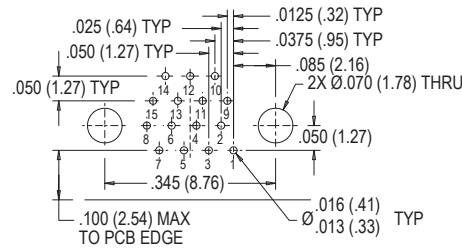
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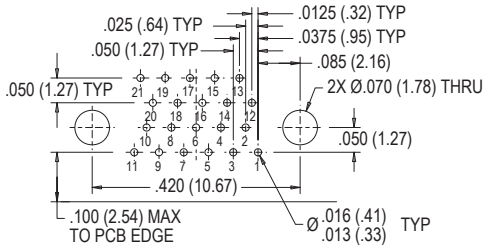
Right-angle plug (pin) connector layout patterns shown are for the connector mounting side of PC board



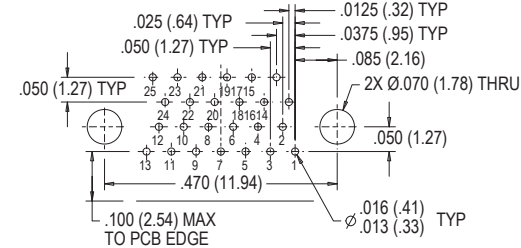
9 Contacts



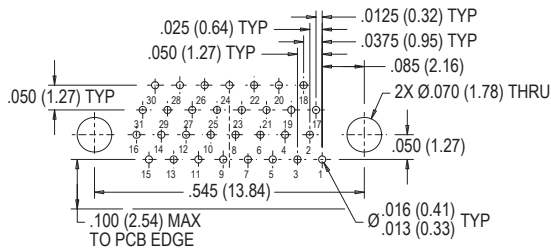
15 Contacts



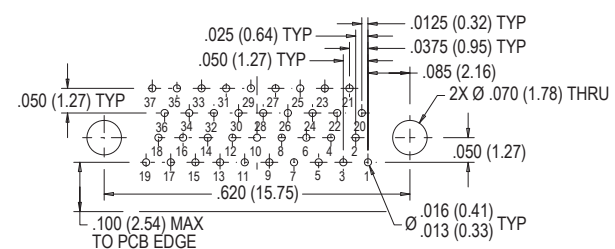
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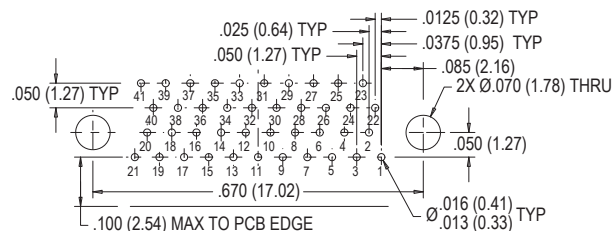
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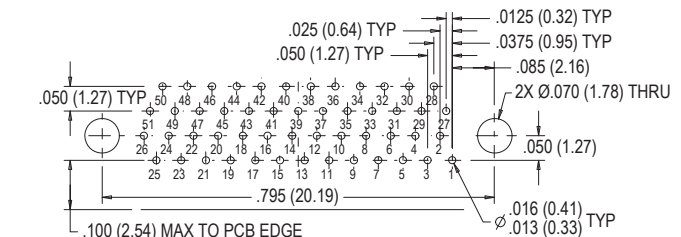
31 Contacts



37 Contacts



41 Contacts

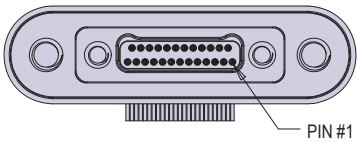


51 Contacts

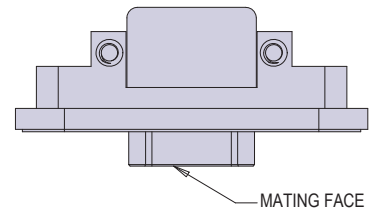
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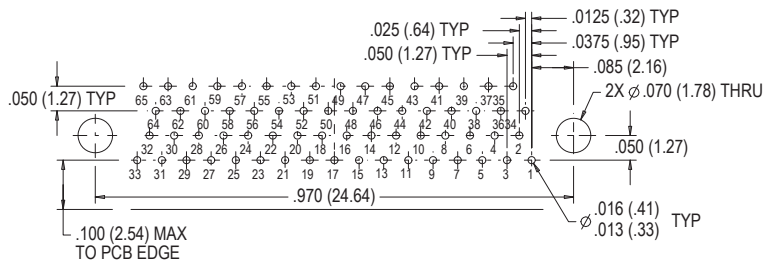
891-064 Rear Panel Mount, Gasket-Sealed, RA Thru-Hole PCB Thread Mount - Plug Footprint



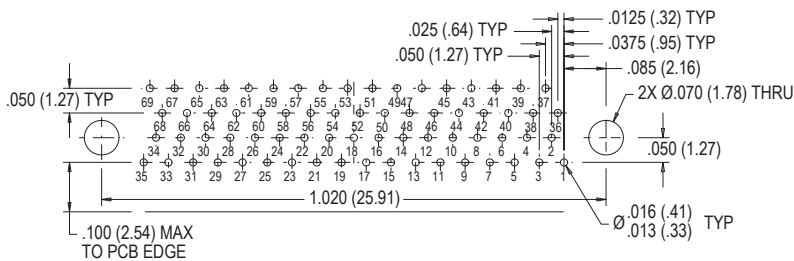
Right-angle plug (pin) connector layout patterns shown are for the connector mounting side of PC board



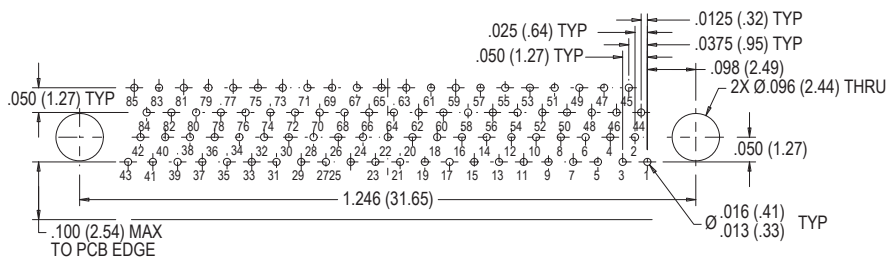
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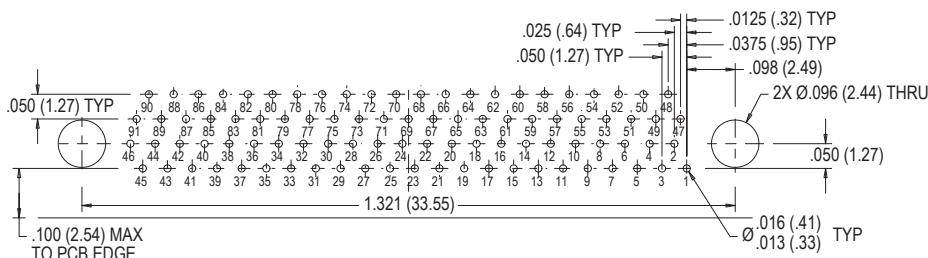
65 Contacts



69 Contacts



85 Contacts



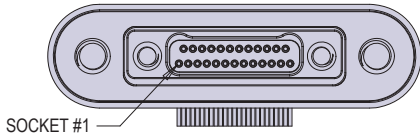
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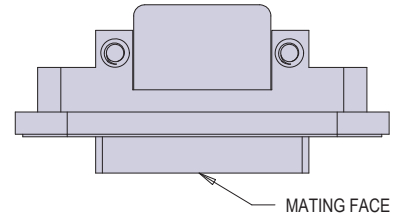


891-065 Rear Panel Mount, Gasket-Sealed, RA Thru-Hole PCB Thread Mount - Receptacle Footprint

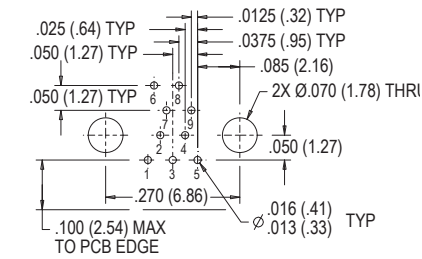
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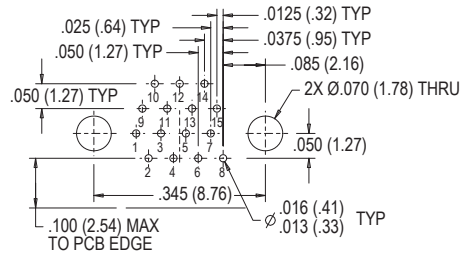
Right-angle receptacle (socket) connector layout patterns shown are for the connector mounting side of PC board



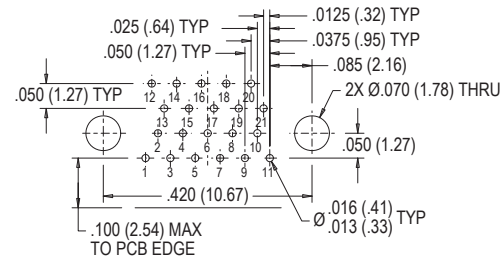
MATING FACE



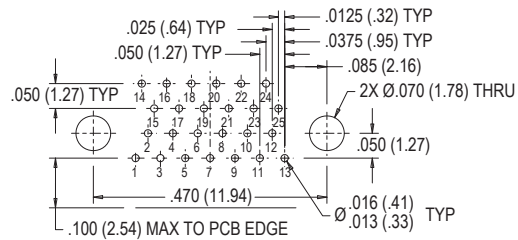
9 Contacts



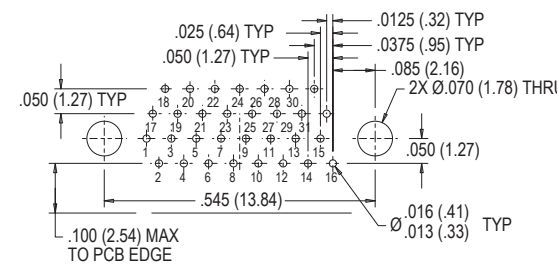
15 Contacts



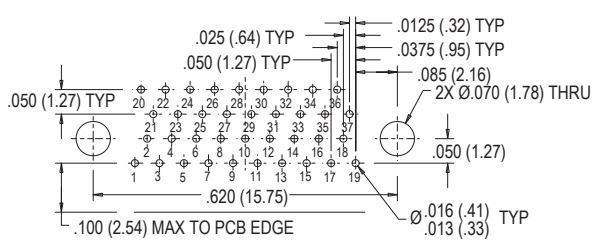
21 Contacts



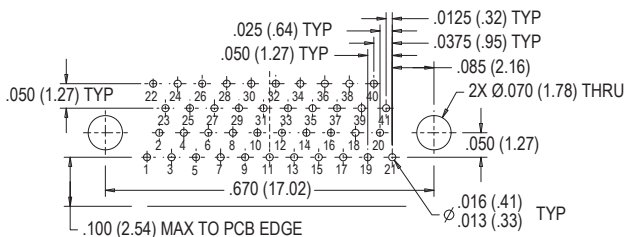
25 Contacts



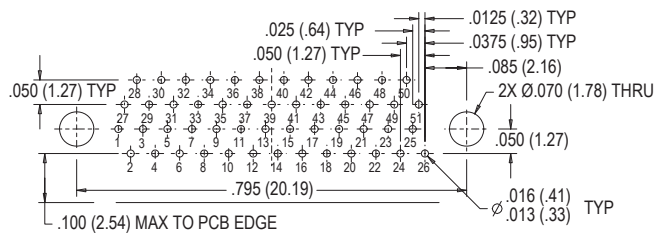
31 Contacts



37 Contacts



41 Contacts

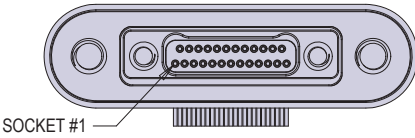


51 Contacts

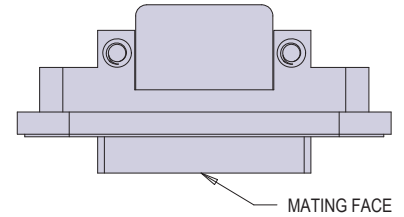
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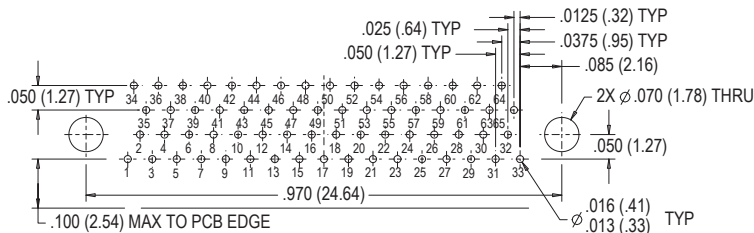
891-065 Rear Panel Mount, Gasket-Sealed, RA Thru-Hole PCB Thread Mount - Receptacle Footprint



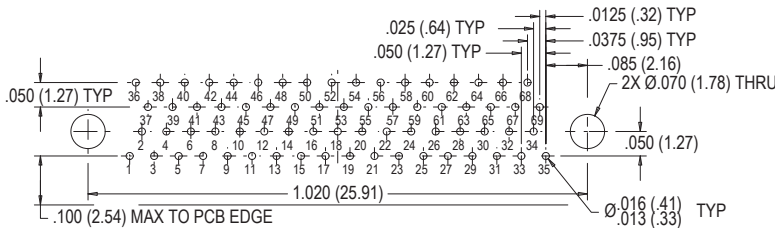
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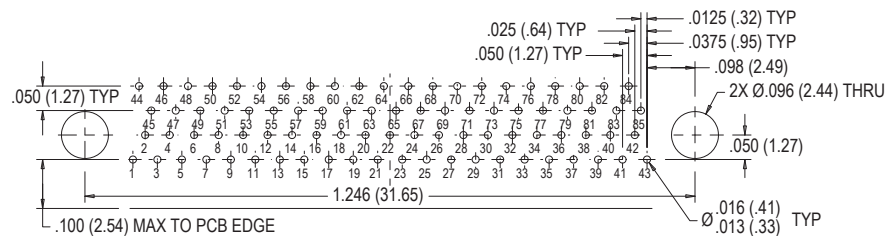
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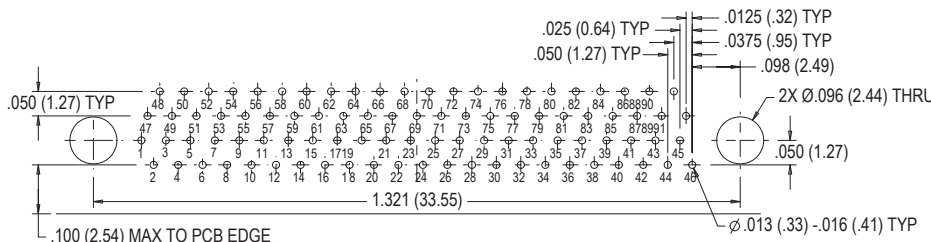
65 Contacts



69 Contacts



85 Contacts



91 Contacts