

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



891-029 and 891-030 Rear Panel Mount, Gasket-Sealed, Vertical Thru-Hole PCB Connectors

DUAL-ROW RECTANGULAR CONNECTORS



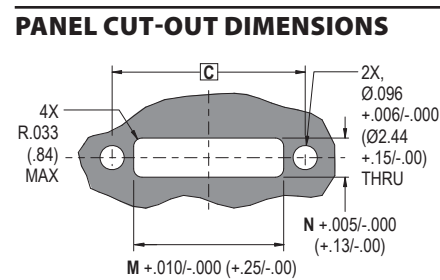
Rear Panel Mount PCB Connectors feature gold alloy TwistPin contacts, titanium or stainless steel shells offering premium performance and reliability for demanding applications. Gasket seals available in fluorosilicone, Cho-Seal 1298 or Cho-Seal 6503. For replacement gaskets see 899-015.

Twelve Layouts From 9 To 91 Contacts. MIL-DTL-32139 type connectors are intermateable with any M32139 compliant connector or Glenair Series 891 Dual-Row metal shell nanominiature connector. Pre-Tinned PC Tails are coated with Sn63Pb37 or Sn60Pb40 tin-lead for excellent solderability.

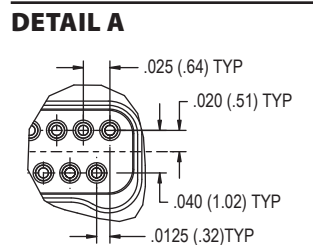
HOW TO ORDER	
Sample Part Number	891-030 -25S S -BST 1 T -01 M
Series	891-029 = Rear Panel Mount Plug, Vertical Thru-Hole 891-030 = Rear Panel Mount Receptacle, Vertical Thru-Hole
Insert Arrangement/ Contact Type	Pins (891-029 Plugs): 9P, 15P, 21P, 25P, 31P, 37P, 41P, 51P, 65P, 69P, 85P, 91P Sockets (891-030 Receptacles): 9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85P, 91S
Shell Material and Finish	T = Titanium Shell, Unplated S = Stainless Steel Shell, Passivated
Termination Type	BST = Board Straight 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, #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)
Mounting Thread Option	Omit for #2-56 UNC-2B M = M2X0.4 6H



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



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)



- NOTES**
- Inspect and test IAW MIL-DTL-32139
 - Interface dimensions per MIL-DTL-32139, plug (1/3) Receptacle (1/4)

- Recommended Panel thickness .100 (2.54) max
- Panel cutout sized to allow lobe up or lobe down mounting orientation

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DIMENSIONS							
891-029 Plug (Pin) Connectors				891-030 Receptacle (Socket) Connectors			
<p>2X THD HOLES Shell Sizes 6-69 #0-80 UNF-2B Shell Size 85 & 91 #2-56 UNC-2B</p> <p>Shell Sizes 6-69 .280 (7.11) Shell Size 85 & 91 .305 (7.75)</p> <p>2X MTG HOLES (SEE P/N BREAK DOWN) ∇ .100 (2.54) MIN FULL THD</p> <p>PIN #1</p> <p>SEE DETAIL A</p> <p>∅.010 +.002/-0.000 (.25 +.05/-0.00)</p> <p>225 (5.72)</p> <p>∅.010 +.002/-0.000 (.25 +.05/-0.00)</p> <p>225 (5.72)</p> <p>.105 ±.003 (2.67 ±.08)</p> <p>LEAD LENGTH ±.015 (0.38)</p>				<p>SOCKET #1</p> <p>2X THD HOLES Shell Size 9-69: #0-80 UNF-2B Shell Size 85 & 91: #2-56 UNC-2B</p> <p>Shell Size 9-69: .280 (7.11) Shell Size 85 & 91: .305 (7.75)</p> <p>2X MTG HOLES (SEE P/N BREAK DOWN) ∇ .100 (2.54) MIN FULL THD</p> <p>SEE DETAIL A</p> <p>∅.010 +.002/-0.000 (.25 +.05/-0.00)</p> <p>225 (5.72)</p> <p>∅.010 +.002/-0.000 (.25 +.05/-0.00)</p> <p>225 (5.72)</p> <p>.105 (2.67)</p> <p>LEAD LENGTH ±.015 (.38)</p>			
Layout	A BSC.	B BSC.	C BSC.	D	E	F	G
9P	.270 (6.86)	.160 (4.06)	.566 (14.38)	.170 (4.32)	.688 (17.48)	.808 (20.52)	--
9S	.270 (6.86)	.163 (4.14)	.566 (14.38)	.170 (4.32)	.688 (17.48)	.808 (20.52)	.375 (9.52)
15P	.345 (8.76)	.235 (5.97)	.641 (16.28)	.245 (6.22)	.763 (19.38)	.883 (22.43)	--
15S	.345 (8.76)	.238 (6.05)	.641 (16.28)	.245 (6.22)	.763 (19.38)	.883 (22.43)	.450 (11.43)
21P	.420 (10.67)	.310 (7.87)	.716 (18.19)	.320 (8.13)	.838 (21.29)	.958 (24.33)	--
21S	.420 (10.67)	.313 (7.95)	.716 (18.19)	.320 (8.13)	.838 (21.29)	.958 (24.33)	.525 (13.34)
25P	.470 (11.94)	.360 (9.14)	.766 (19.46)	.370 (9.40)	.888 (22.56)	1.008 (25.60)	--
25S	.470 (11.94)	.363 (9.22)	.766 (19.46)	.370 (9.40)	.888 (22.56)	1.008 (25.60)	.575 (14.60)
31P	.545 (13.84)	.435 (11.05)	.841 (21.36)	.445 (11.30)	.963 (24.46)	1.083 (27.51)	--
31S	.545 (13.84)	.438 (11.13)	.841 (21.36)	.445 (11.30)	.963 (24.46)	1.083 (27.51)	.650 (16.51)
37P	.620 (15.75)	.510 (12.95)	.916 (23.27)	.520 (13.21)	1.038 (26.37)	1.158 (29.41)	--
37S	.620 (15.75)	.513 (13.03)	.916 (23.27)	.520 (13.21)	1.038 (26.37)	1.158 (29.41)	.725 (18.42)
41P	.670 (17.02)	.560 (14.22)	.966 (24.54)	.570 (14.48)	1.088 (27.64)	1.208 (30.68)	--
41S	.670 (17.02)	.563 (14.30)	.966 (24.54)	.570 (14.48)	1.088 (27.64)	1.208 (30.68)	.775 (19.68)
51P	.795 (20.19)	.685 (17.40)	1.091 (27.71)	.695 (17.65)	1.213 (30.81)	1.333 (33.86)	--
51S	.795 (20.19)	.688 (17.48)	1.091 (27.71)	.695 (17.65)	1.213 (30.81)	1.333 (33.86)	.900 (22.86)
65P	.970 (24.64)	.860 (21.84)	1.266 (32.16)	.870 (22.10)	1.388 (35.26)	1.508 (38.30)	--
65S	.970 (24.64)	.863 (21.92)	1.266 (32.16)	.870 (22.10)	1.388 (35.26)	1.508 (38.30)	1.075 (27.30)
69P	1.020 (25.91)	.910 (23.11)	1.316 (33.43)	.920 (23.37)	1.438 (36.53)	1.558 (39.57)	--
69S	1.020 (25.91)	.913 (23.19)	1.316 (33.43)	.920 (23.37)	1.438 (36.53)	1.558 (39.57)	1.125 (28.58)
85P	1.246 (31.65)	1.110 (28.19)	1.568 (39.83)	1.120 (28.45)	1.690 (42.93)	1.810 (45.97)	--
85S	1.246 (31.65)	1.113 (28.27)	1.568 (39.83)	1.120 (28.45)	1.690 (42.93)	1.810 (45.97)	1.377 (34.98)
91P	1.321 (33.55)	1.185 (30.10)	1.643 (41.73)	1.195 (30.35)	1.765 (44.83)	1.885 (47.88)	--
91S	1.321 (33.55)	1.188 (30.18)	1.643 (41.73)	1.195 (30.35)	1.765 (44.83)	1.885 (47.88)	1.452 (36.88)

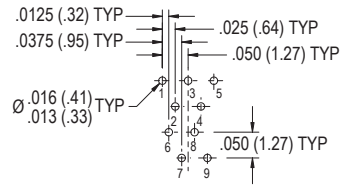
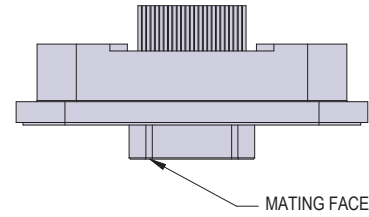
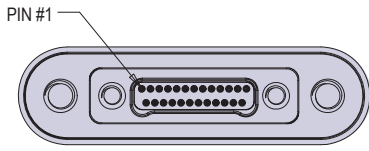
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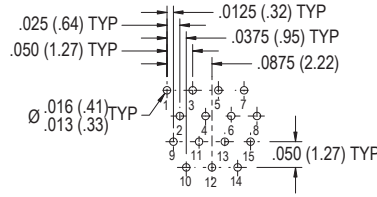


891-029 Rear Panel Mount, Gasket-Sealed, Vertical Thru-Hole PCB Connectors - Plug PCB Footprint

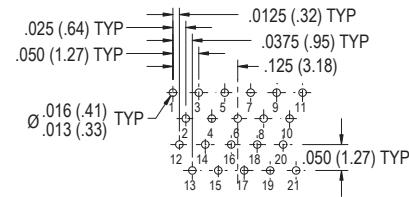
DUAL-ROW RECTANGULAR CONNECTORS



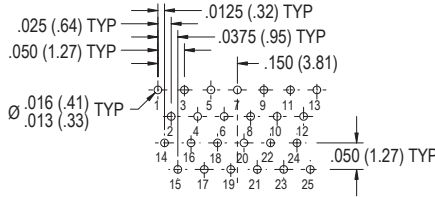
9 Contacts



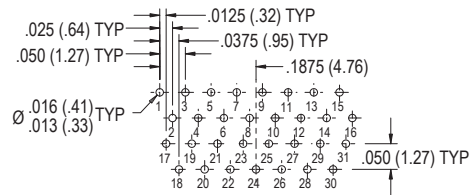
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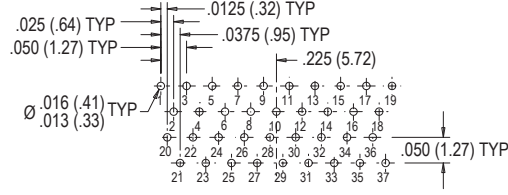
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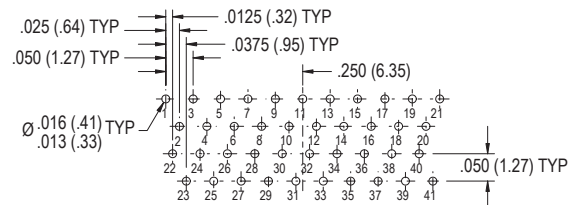
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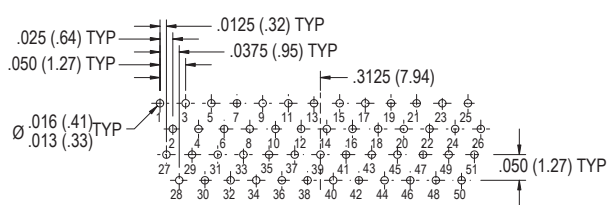
31 Contacts



37 Contacts



41 Contacts



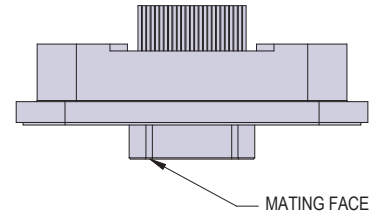
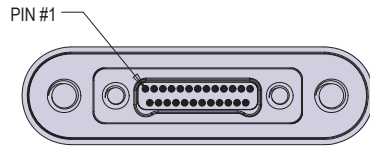
51 Contacts

Layouts shown are for connector mounting side of PC Board.

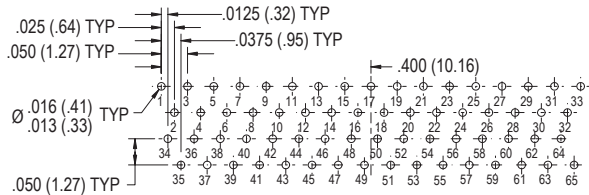
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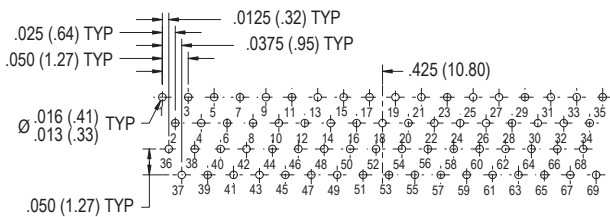
891-029 Rear Panel Mount, Gasket-Sealed, Vertical Thru-Hole PCB Connectors - Plug PCB Footprint



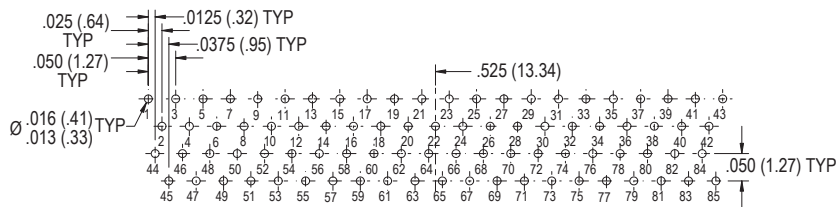
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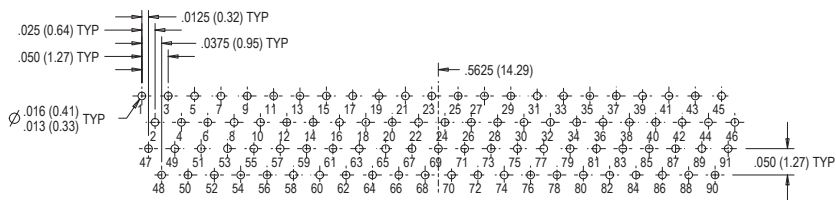
65 Contacts



69 Contacts



85 Contacts



91 Contacts

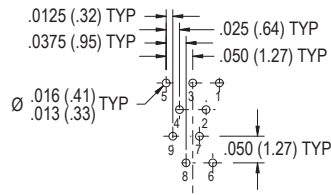
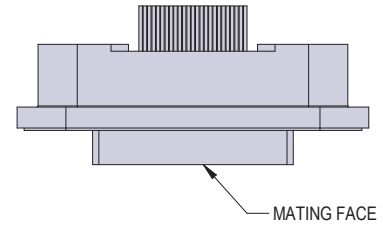
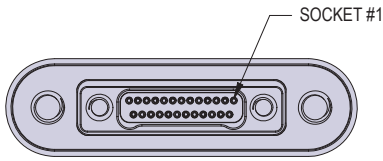
Layouts shown are for connector mounting side of PC Board.

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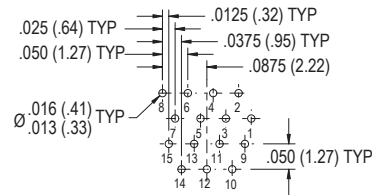


891-030 Rear Panel Mount, Gasket-Sealed, Vertical Thru-Hole PCB - Receptacle PCB Footprint

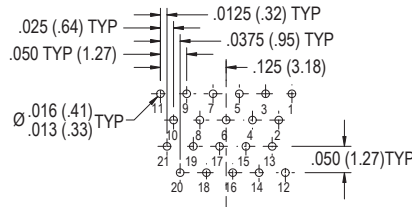
DUAL-ROW RECTANGULAR CONNECTORS



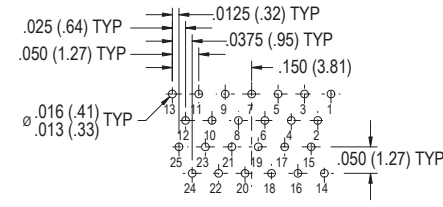
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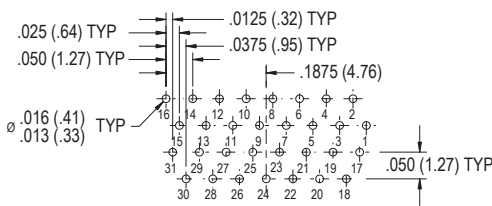
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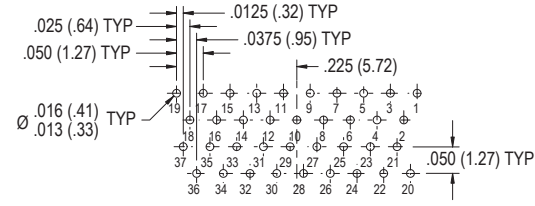
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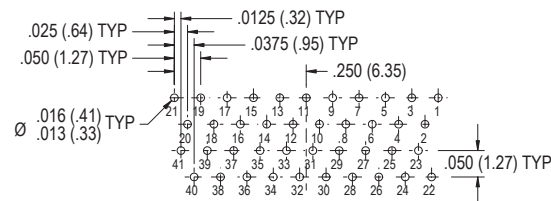
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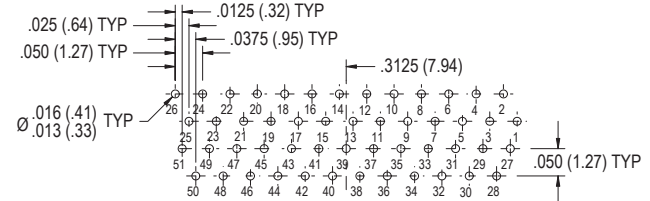
31 Contacts



37 Contacts



41 Contacts



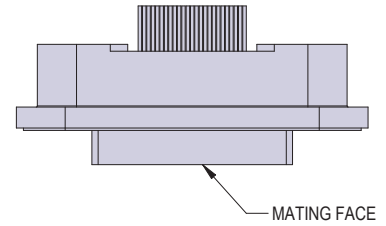
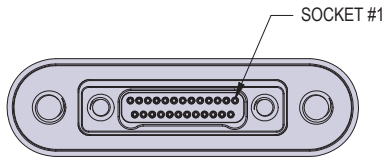
51 Contacts

Layouts shown are for connector mounting side of PC Board.

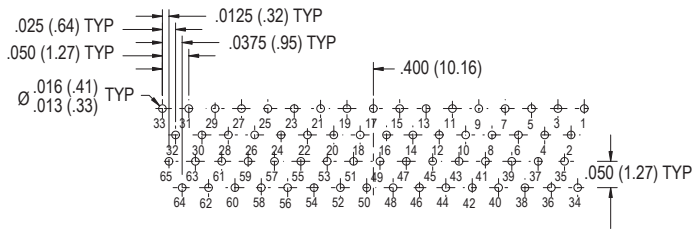
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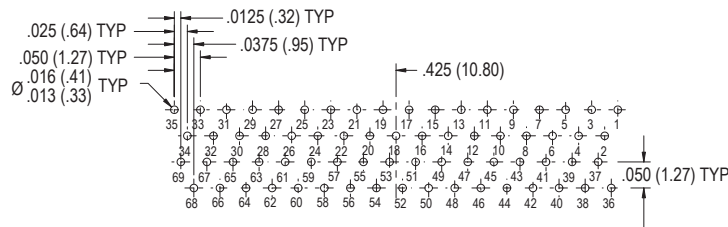
891-030 Rear Panel Mount, Gasket-Sealed, Vertical Thru-Hole PCB - Receptacle PCB Footprint



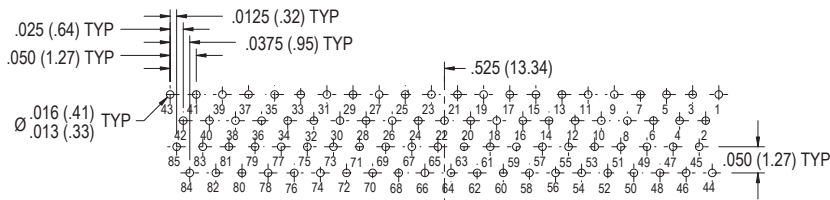
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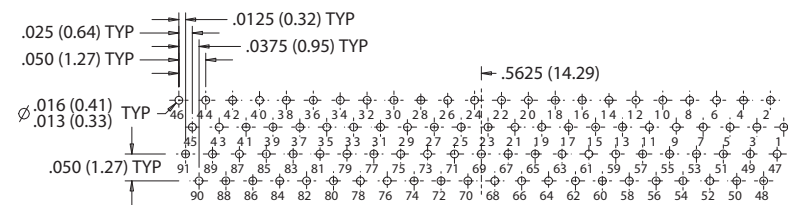
65 Contacts



69 Contacts



85 Contacts



91 Contacts

Layouts shown are for connector mounting side of PC Board.