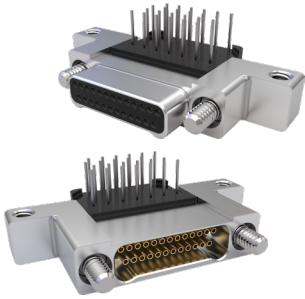


SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



891-043 and 891-044 Right-Angle Mount Thru-Hole PCB Connectors with Mounting Ears

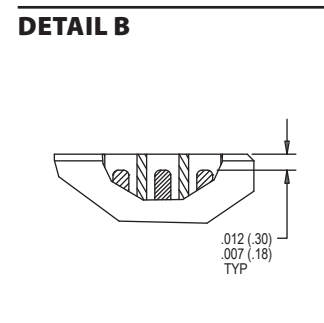
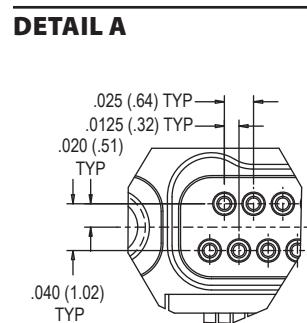
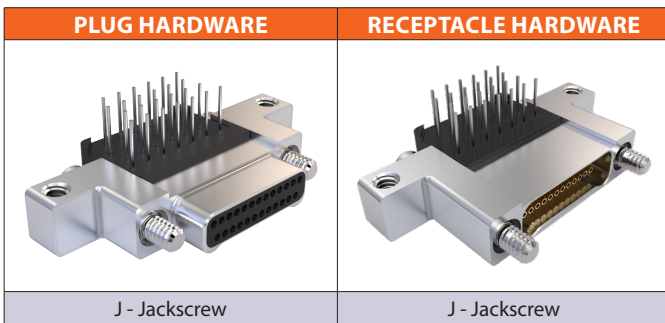
DUAL-ROW RECTANGULAR CONNECTORS



Right-Angle Mount PCB Nano Connectors feature gold alloy TwistPin contacts. These nanominiature connectors offer premium performance and reliability for demanding applications. Available with female mounting threads and jackscrews for use with printed circuits boards. Pre-Tinned PC Tails are coated with Sn63Pb37 or Sn60Pb40 tin-lead for excellent solderability.

Choose Aluminum, Titanium or Stainless Steel Shells in twelve layouts from 9 to 91 contacts. Complies to the requirements of MIL-DTL-32139. These connectors are intermateable with any M32139 compliant connector or Glenair Series 891 Dual-Row metal shell nanominiature connector.

HOW TO ORDER						
Sample Part Number		891-044	-25S	A2	-BRT	1 J
Series	891-043 = Plug, Right-Angle Thru-Hole PCB Connector with Mounting Ears 891-044 = Receptacle, Right-Angle Thru-Hole PCB Connector with Mounting Ears					
Insert Arrangement/ Contact Type	Pins (891-043 Plugs): 9P, 15P, 21P, 25P, 31P, 37P, 41P, 51P, 65P, 69P, 85P, 91P Sockets (891-044 Receptacles): 9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85S, 91S					
Shell Material and Finish	A1 = Aluminum Shell, Cadmium Plating A2 = Aluminum Shell, Electroless Nickel Plating A31 = Aluminum Shell, Zinc Nickel Plating, Black A33 = Aluminum Shell, Nickel PTFE Plating 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	J = Hex Head Jackscrew					



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

NOTES

- Inspect and test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/3 and /4
- Materials/finishes
- 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
- Hardware: passivated stainless steel

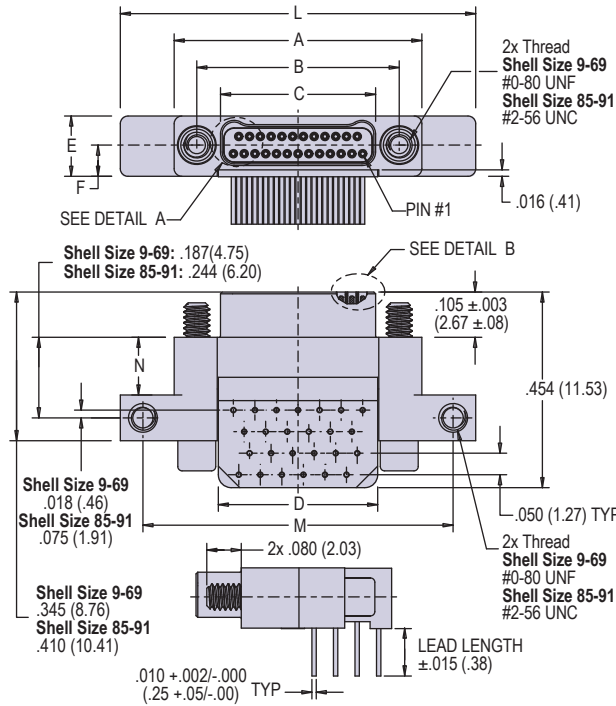
SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



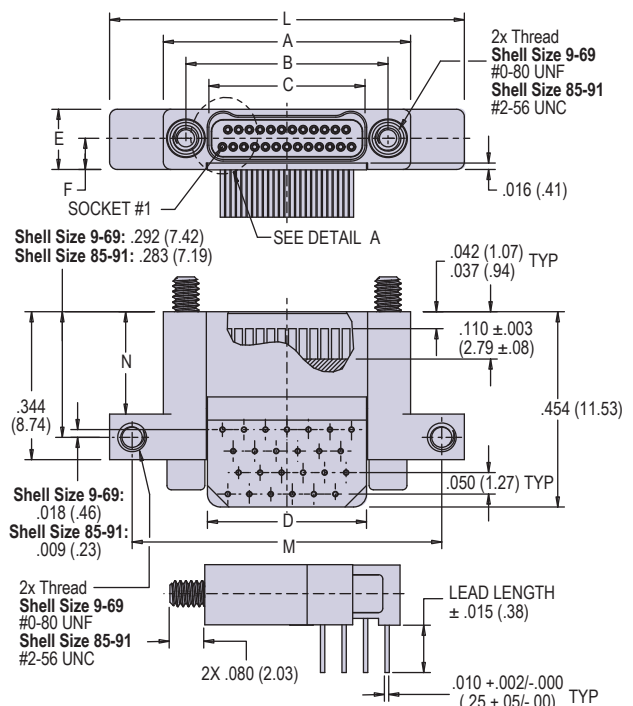
891-043 and 891-044 Right-Angle Mount Thru-Hole PCB Connectors with Mounting Ears

DIMENSIONS

891-043 Plug (Pin) Connector



891-044 Plug (Socket) Connector



Size	A	B BSC.	C BSC.	D	E	F	L	M BSC	N
9P	.375 (9.52)	.270 (6.86)	.160 (4.06)	.170 (4.32)	.140 (3.56)	.0725 (1.84)	.625 (15.88)	.520 (13.21)	.134 (3.40)
9S	.375 (9.52)	.270 (6.86)	.163 (4.14)	.170 (4.32)	.140 (3.56)	.0725 (1.84)	.625 (15.88)	.520 (13.21)	.238 (6.05)
15P	.450 (11.43)	.345 (8.76)	.235 (5.97)	.245 (6.22)	.140 (3.56)	.0725 (1.84)	.700 (17.78)	.595 (15.11)	.134 (3.40)
15S	.450 (11.43)	.345 (8.76)	.238 (6.05)	.245 (6.22)	.140 (3.56)	.0725 (1.84)	.700 (17.78)	.595 (15.11)	.238 (6.05)
21P	.525 (13.34)	.420 (10.67)	.310 (7.87)	.320 (8.13)	.140 (3.56)	.0725 (1.84)	.775 (19.68)	.670 (17.02)	.134 (3.40)
21S	.525 (13.34)	.420 (10.67)	.313 (7.95)	.320 (8.13)	.140 (3.56)	.0725 (1.84)	.775 (19.68)	.670 (17.02)	.238 (6.05)
25P	.575 (14.60)	.470 (11.94)	.360 (9.14)	.370 (9.40)	.140 (3.56)	.0725 (1.84)	.825 (20.96)	.720 (18.29)	.134 (3.40)
25S	.575 (14.60)	.470 (11.94)	.363 (9.22)	.370 (9.40)	.140 (3.56)	.0725 (1.84)	.825 (20.96)	.720 (18.29)	.238 (6.05)
31P	.650 (16.51)	.545 (13.84)	.435 (11.05)	.445 (11.30)	.140 (3.56)	.0725 (1.84)	.900 (22.86)	.795 (20.19)	.134 (3.40)
31S	.650 (16.51)	.545 (13.84)	.438 (11.13)	.445 (11.30)	.140 (3.56)	.0725 (1.84)	.900 (22.86)	.795 (20.19)	.238 (6.05)
37P	.725 (18.42)	.620 (15.75)	.510 (12.95)	.520 (13.21)	.140 (3.56)	.0725 (1.84)	.975 (24.76)	.870 (22.10)	.134 (3.40)
37S	.725 (18.42)	.620 (15.75)	.513 (13.03)	.520 (13.21)	.140 (3.56)	.0725 (1.84)	.975 (24.76)	.870 (22.10)	.238 (6.05)
41P	.775 (19.68)	.670 (17.02)	.560 (14.22)	.570 (14.48)	.140 (3.56)	.0725 (1.84)	1.025 (26.03)	.920 (23.37)	.134 (3.40)
41S	.775 (19.68)	.670 (17.02)	.563 (14.30)	.570 (14.48)	.140 (3.56)	.0725 (1.84)	1.025 (26.03)	.920 (23.37)	.238 (6.05)
51P	.900 (22.86)	.795 (20.19)	.685 (17.40)	.695 (17.65)	.140 (3.56)	.0725 (1.84)	1.150 (29.21)	1.045 (26.54)	.134 (3.40)
51S	.900 (22.86)	.795 (20.19)	.688 (17.48)	.695 (17.65)	.140 (3.56)	.0725 (1.84)	1.150 (29.21)	1.045 (26.54)	.238 (6.05)
65P	1.075 (27.30)	.970 (24.64)	.860 (21.84)	.870 (22.10)	.140 (3.56)	.0725 (1.84)	1.325 (33.65)	1.220 (30.99)	.134 (3.40)
65S	1.075 (27.30)	.970 (24.64)	.863 (21.92)	.870 (22.10)	.140 (3.56)	.0725 (1.84)	1.325 (33.65)	1.220 (30.99)	.238 (6.05)
69P	1.125 (28.58)	1.020 (25.91)	.910 (23.11)	.920 (23.37)	.140 (3.56)	.0725 (1.84)	1.375 (34.92)	1.270 (32.26)	.134 (3.40)
69S	1.125 (28.58)	1.020 (25.91)	.913 (23.19)	.920 (23.37)	.140 (3.56)	.0725 (1.84)	1.375 (34.92)	1.270 (32.26)	.238 (6.05)
85P	1.377 (34.98)	1.246 (31.65)	1.110 (28.19)	1.120 (28.45)	.165 (4.19)	.0850 (2.16)	1.679 (42.65)	1.546 (39.27)	.183 (4.65)
85S	1.377 (34.98)	1.246 (31.65)	1.113 (28.27)	1.120 (28.45)	.165 (4.19)	.0850 (2.16)	1.679 (42.65)	1.546 (39.27)	.222 (5.64)
91P	1.452 (36.88)	1.321 (33.55)	1.185 (30.10)	1.195 (30.35)	.165 (4.19)	.0850 (2.16)	1.754 (44.55)	1.621 (41.17)	.183 (4.65)
91S	1.452 (36.88)	1.321 (33.55)	1.188 (30.18)	1.195 (30.35)	.165 (4.19)	.0850 (2.16)	1.754 (44.55)	1.621 (41.17)	.222 (5.64)

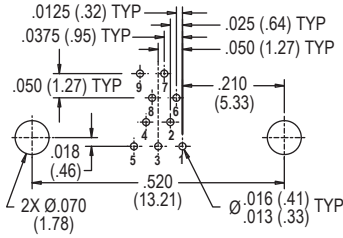
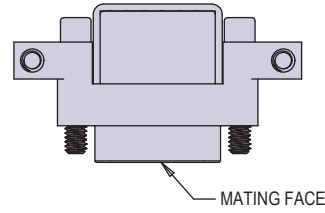
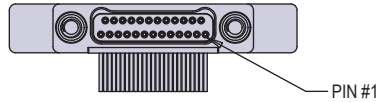
DUAL-ROW RECTANGULAR CONNECTORS

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors

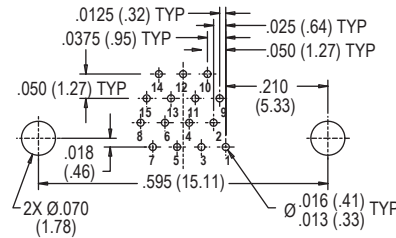


891-043 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Plug PCB Footprints

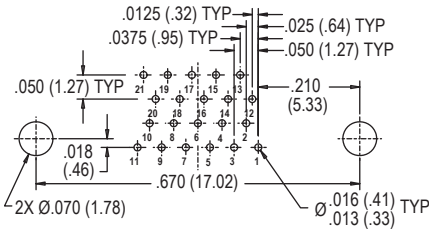
DUAL-ROW RECTANGULAR CONNECTORS



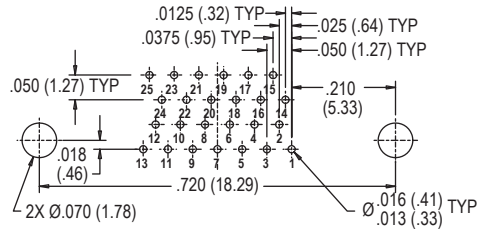
9 Contacts



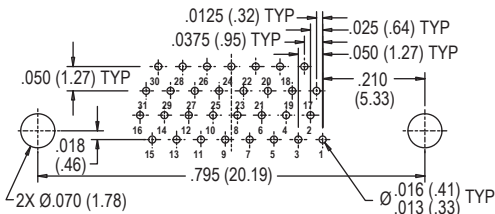
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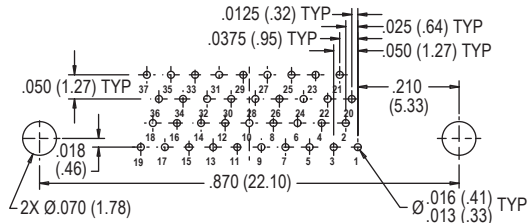
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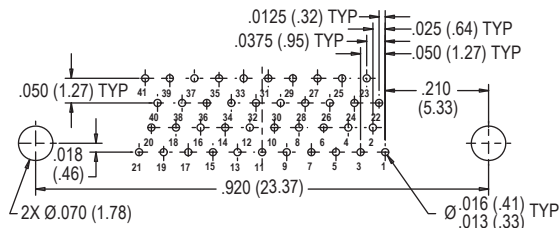
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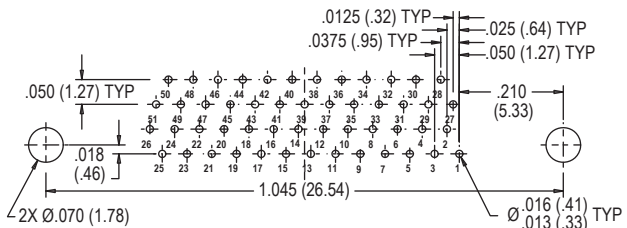
31 Contacts



37 Contacts



41 Contacts



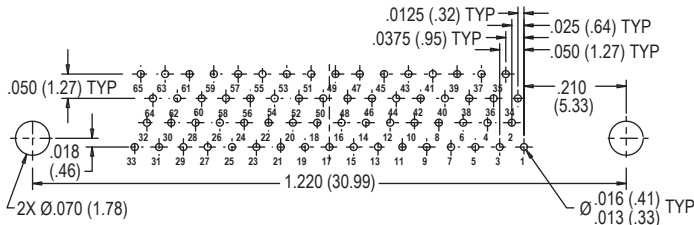
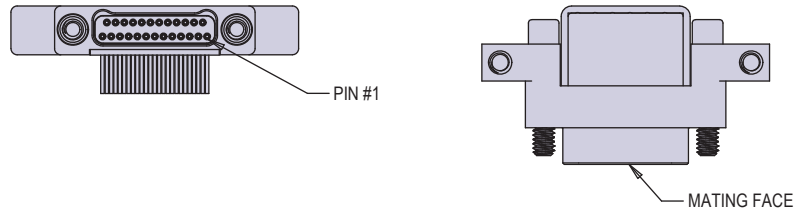
51 Contacts

Layouts shown are for connector mounting side of PC Board.

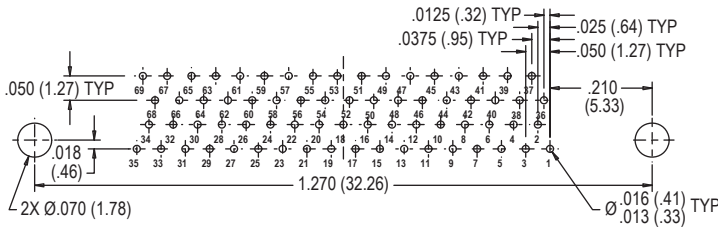
SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



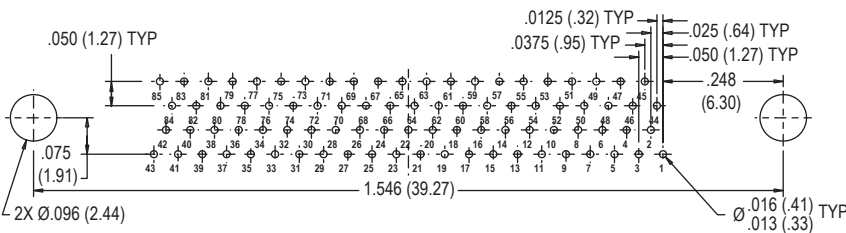
891-043 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Plug PCB Footprints



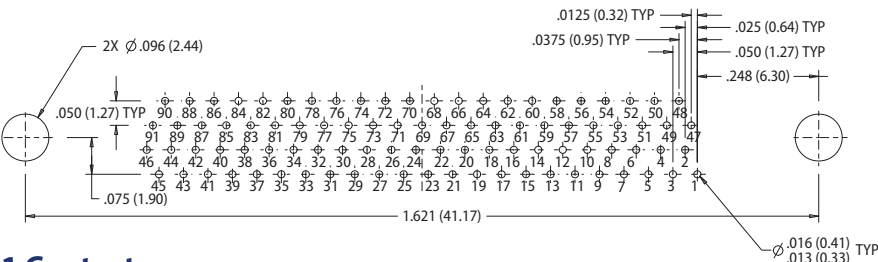
65 Contacts



69 Contacts



85 Contacts



91 Contacts

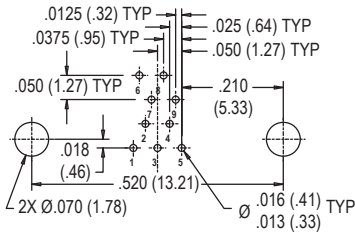
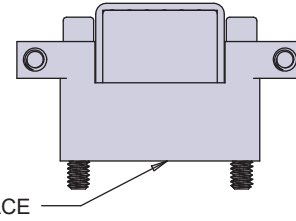
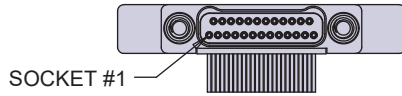
Layouts shown are for connector mounting side of PC Board.

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors

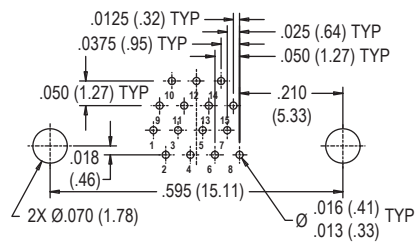


891-044 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Receptacle PCB Footprints

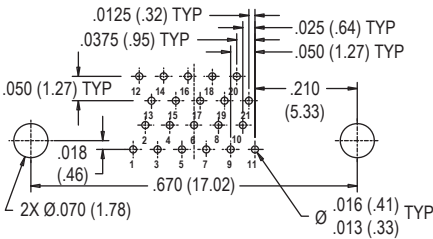
DUAL-ROW RECTANGULAR CONNECTORS



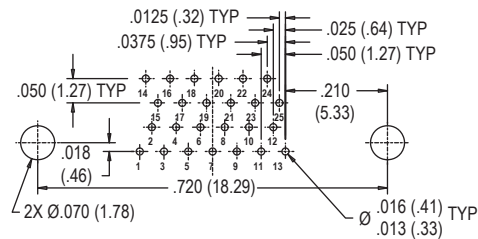
9 Contacts



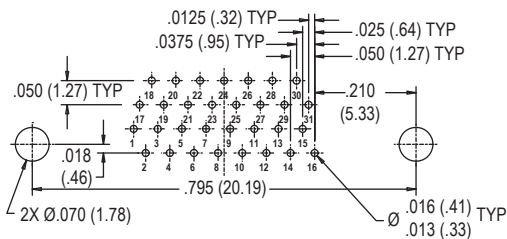
15 Contacts



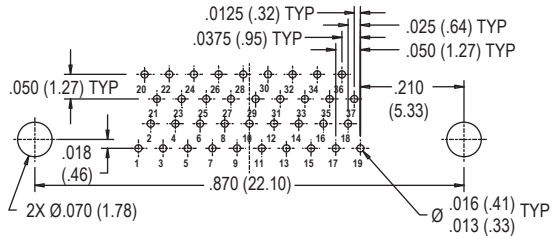
21 Contacts



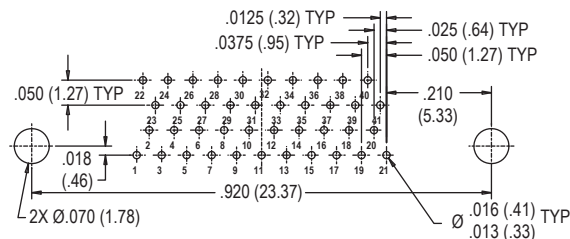
25 Contacts



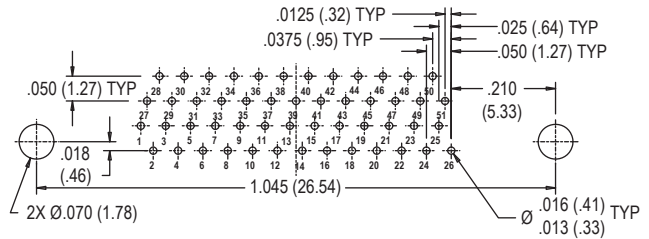
31 Contacts



37 Contacts



41 Contacts



51 Contacts

Layouts shown are for connector mounting side of PC Board.

