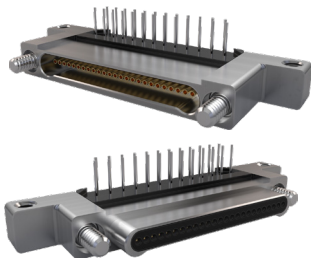


SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors



890-043 and 890-044 Right-Angle Mount Thru-Hole PCB Connectors with Mounting Ears

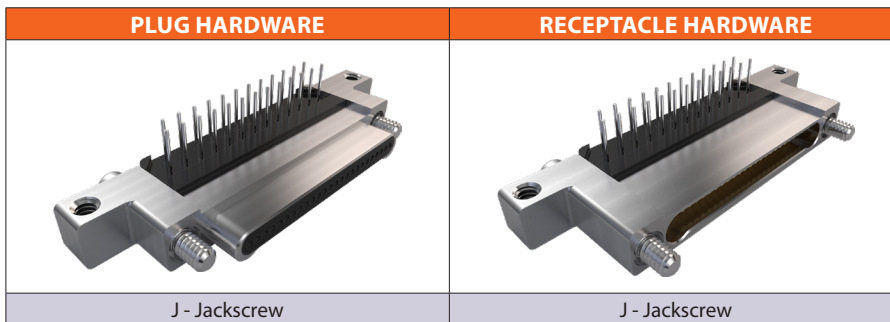
SINGLE-ROW RECTANGULAR CONNECTORS



Right-Angle Thru-Hole PCB Nano Connectors with Mounting Ears feature gold alloy TwistPin contacts. These nanominiature connectors offer premium performance and reliability for demanding applications. Robust mounting ears allow for jackscrew hardware to be used, available with #0-80 female mounting threads and #0-80 jackscrew threads.

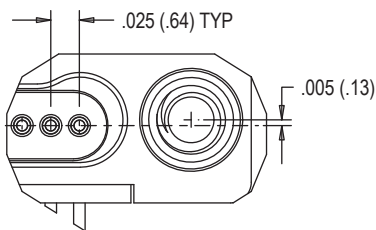
Pre-Tinned PC Tails are coated with Sn60Pb40 or Sn63Pb37 tin-lead for excellent solderability. Choose aluminum, titanium or stainless steel shells in eight layouts from 5 to 51 contacts. These connectors are intermateable with any corresponding Glenair Series 890 single row metal shell nanominiature connector.

HOW TO ORDER						
Sample Part Number	890-043		-25P	A2	-BRT	1 J
Series	890-043 = Right-Angle, Thru-Hole PCB Plug 890-044 = Right-Angle, Thru-Hole PCB Receptacle					
Insert Arrangement/ Contact Type	Plugs (890-043): 5P, 9P, 15P, 21P, 25P, 31P, 37P, 51P Receptacles (890-044): 5S, 9S, 15S, 21S, 25S, 31S, 37S, 51S					
Shell Material and Finish	A1 = Aluminum Shell, Cadmium Plating A31 = Aluminum Shell, Zinc Nickel Plating, Black T = Titanium Shell, Unplated		A2 = Aluminum Shell, Electroless Nickel Plating A33 = Aluminum Shell, Nickel PTFE Plating 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					

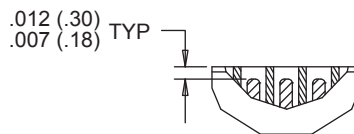


PERFORMANCE SPECIFICATIONS
Contact Spacing: .025" (0.64) contact centers
Current Rating: 1 AMP maximum tested per EIA-364-70
DWV: 250 VAC RMS sea level, 100 VAC RMS 70,000 feet per EIA-364 Procedure 20
Insulation Resistance: 5000 Megohms minimum test voltage 100 VDC, per EIA-364 Procedure 21
Operating 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

DETAIL A



DETAIL B

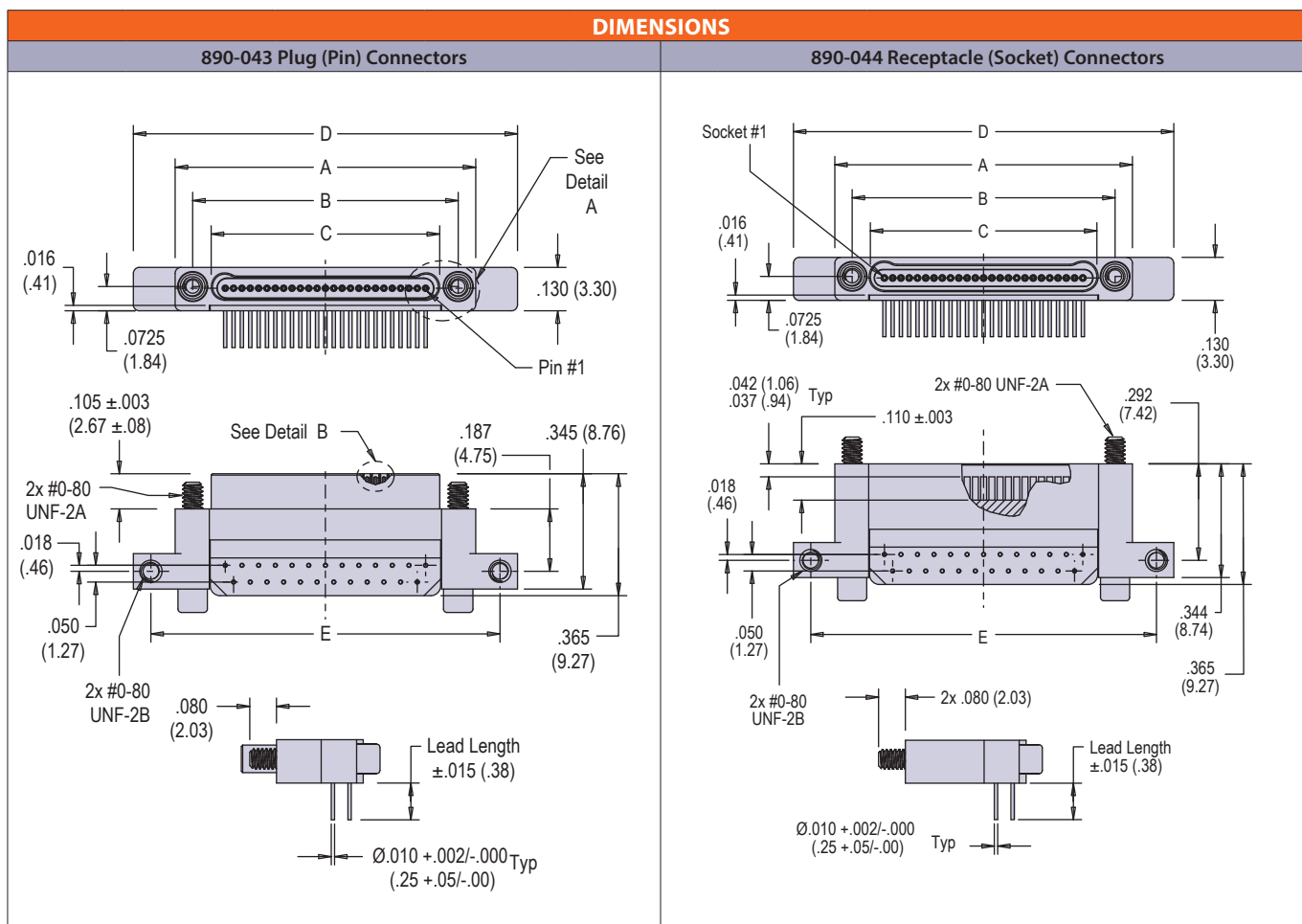


SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors



890-043 and 890-044 Right-Angle Mount Thru-Hole PCB Connectors with Mounting Ears

SINGLE-ROW RECTANGULAR CONNECTORS



Layout	A ± .005(0.127)	B BSC.	C BSC.	D	E BSC
5P	.400 (10.16)	.295 (7.49)	.184 (4.67)	.650 (16.51)	.545 (13.84)
5S	.400 (10.16)	.295 (7.49)	.185 (4.70)	.650 (16.51)	.545 (13.84)
9P	.500 (12.70)	.395 (10.03)	.284 (7.21)	.750 (19.05)	.645 (16.38)
9S	.500 (12.70)	.395 (10.03)	.285 (7.24)	.750 (19.05)	.645 (16.38)
15P	.650 (16.51)	.545 (13.84)	.434 (11.02)	.900 (22.86)	.795 (20.19)
15S	.650 (16.51)	.545 (13.84)	.435 (11.05)	.900 (22.86)	.795 (20.19)
21P	.800 (20.32)	.695 (17.65)	.584 (14.83)	1.050 (26.67)	.945 (24.00)
21S	.800 (20.32)	.695 (17.65)	.585 (14.86)	1.050 (26.67)	.945 (24.00)
25P	.900 (22.86)	.795 (20.19)	.684 (17.37)	1.150 (29.21)	1.045 (26.54)
25S	.900 (22.86)	.795 (20.19)	.685 (17.40)	1.150 (29.21)	1.045 (26.54)
31P	1.050 (26.67)	.945 (24.00)	.834 (21.18)	1.300 (33.02)	1.195 (30.35)
31S	1.050 (26.67)	.945 (24.00)	.835 (21.21)	1.300 (33.02)	1.195 (30.35)
37P	1.200 (30.48)	1.095 (27.81)	.984 (24.99)	1.450 (36.83)	1.345 (34.16)
37S	1.200 (30.48)	1.095 (27.81)	.985 (25.02)	1.450 (36.83)	1.345 (34.16)
51P	1.550 (39.37)	1.445 (36.70)	1.334 (33.88)	1.800 (45.72)	1.695 (43.05)
51S	1.550 (39.37)	1.445 (36.70)	1.335 (33.91)	1.800 (45.72)	1.695 (43.05)

NOTES

1. Material and finish:
 - Shell: see part number breakdown
 - Insulator: LCP N/A
 - Contacts: gold alloy/unplated
 - Pre-tinned PC tails: coated with Sn63Pb37 or Sn60Pb40 tin-lead
 - Hardware: stainless steel, passivated
2. Inspect and Test IAW MIL-DTL-32139
3. Interface dimensions per MIL-DTL-32139/7 and MIL-DTL-32139/8

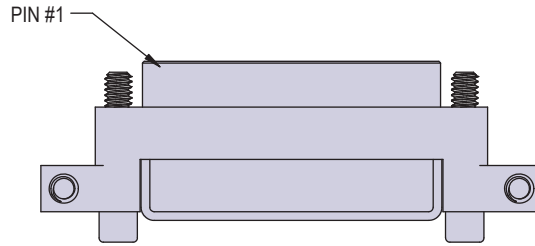
SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors



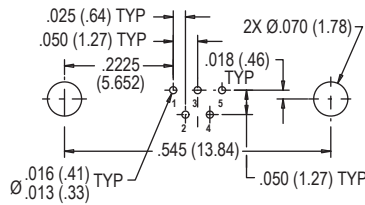
890-043 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Plug Footprints

SINGLE-ROW RECTANGULAR CONNECTORS

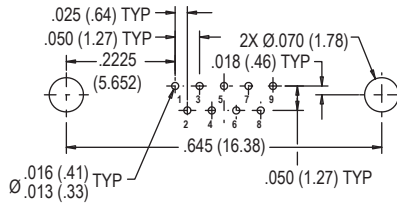
Right-Angle PCB plug (pin) connector layout patterns shown are for the connector mounting side of PC board



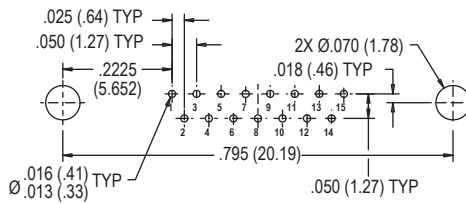
5 Contacts



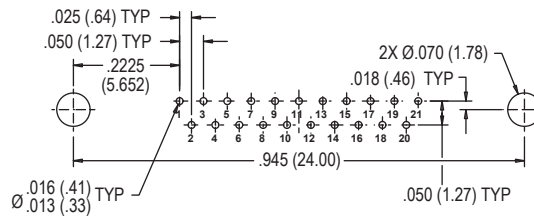
9 Contacts



15 Contacts



21 Contacts



SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors

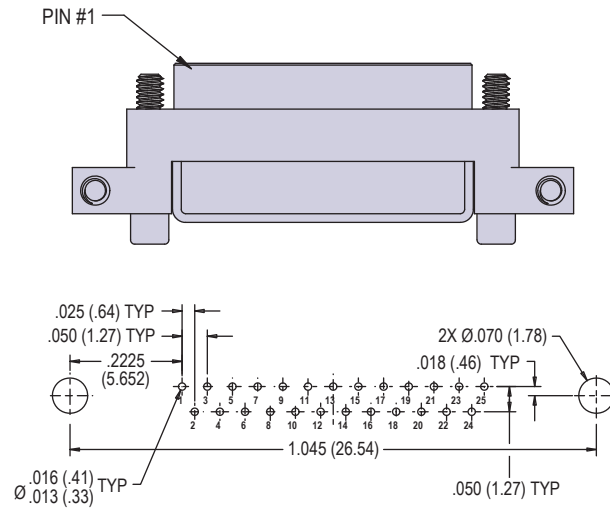


890-043 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Plug Footprints

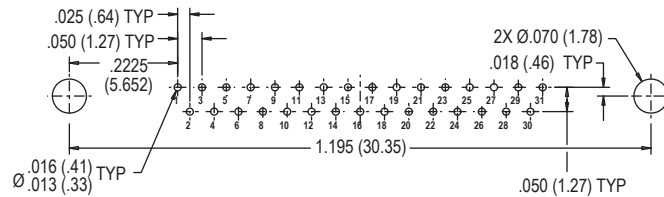
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SINGLE-ROW RECTANGULAR CONNECTORS

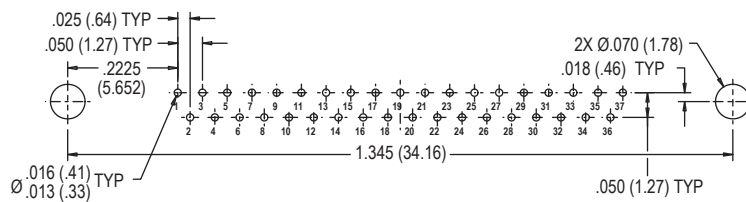
25 Contacts



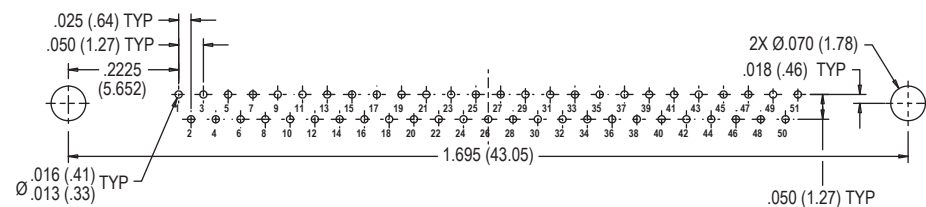
31 Contacts



37 Contacts



51 Contacts



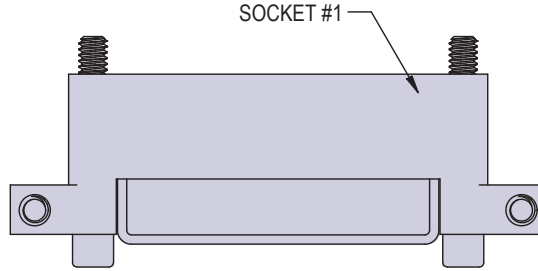
SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors



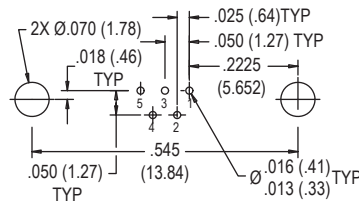
890-044 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Receptacle Footprints

SINGLE-ROW RECTANGULAR CONNECTORS

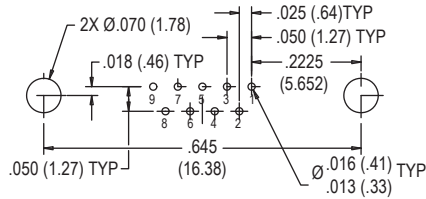
Right-Angle PCB receptacle (socket) connector layout patterns shown are for the connector mounting side of PC board



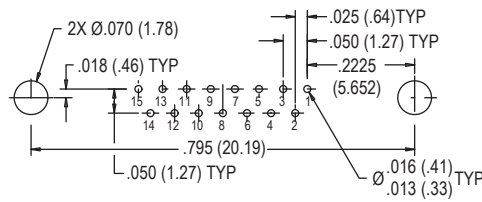
5 Contacts



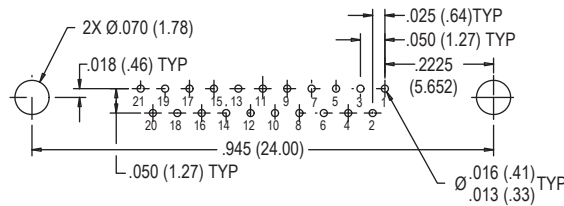
9 Contacts



15 Contacts



21 Contacts

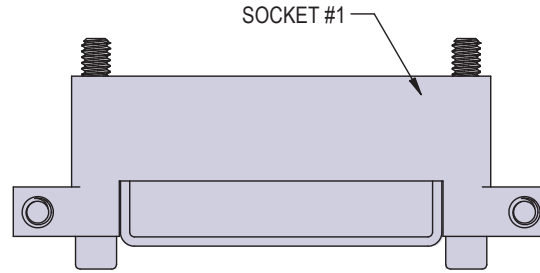


SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors

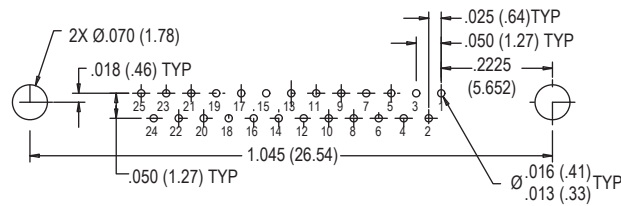


890-044 Right-Angle Mount Thru-Hole PCB with Mounting Ears - Receptacle Footprints

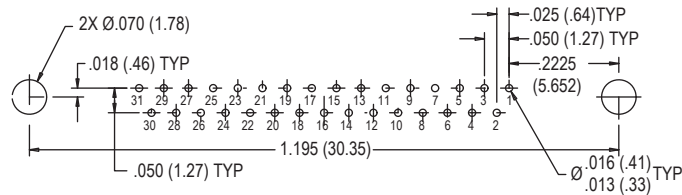
Right-Angle PCB receptacle (socket) connector layout patterns shown are for the connector mounting side of PC board



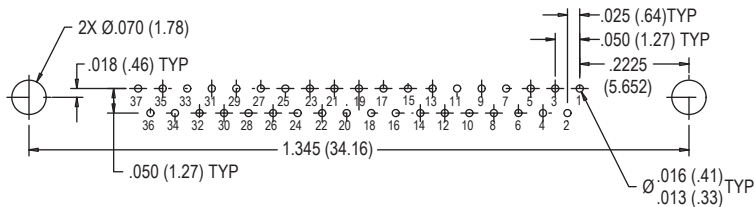
25 Contacts



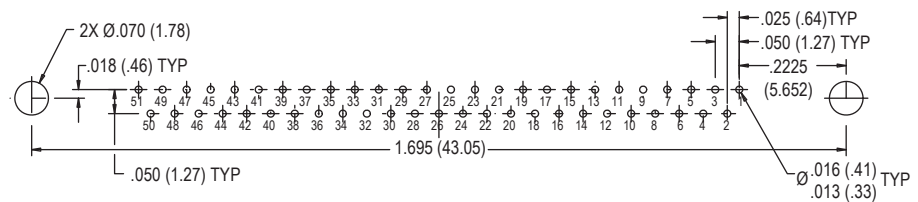
31 Contacts



37 Contacts



51 Contacts



SINGLE-ROW RECTANGULAR CONNECTORS