

SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors



890-039 and 890-040 Vertical-Mount Thru-Hole PCB Connectors with Mounting Ears

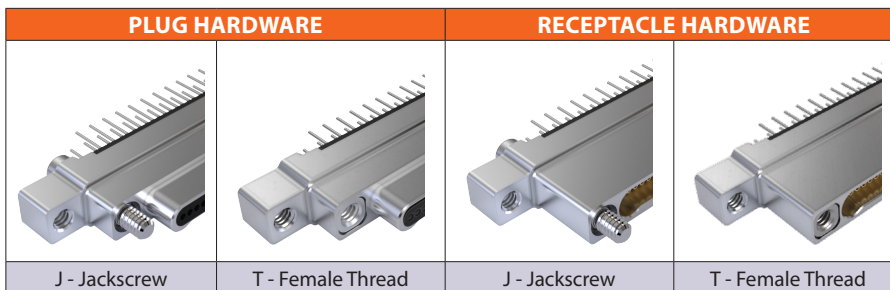
SINGLE-ROW RECTANGULAR CONNECTORS



Vertical-Mount Thru-Hole PCB Nano Connectors feature gold alloy TwistPin contacts. Connectors offer premium performance and reliability for demanding applications. Available with #0-80 female mounting threads and #0-80 jackscrew or threaded jacking holes. Pre-Tinned PC Tails are coated with Sn60Pb40 or Sn63Pb37 tin-lead for excellent solderability.

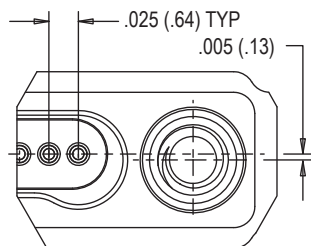
Choose Aluminum, Titanium or Stainless Steel Shells in eight layouts from 5 to 51 contacts. These connectors are intermateable with any corresponding Glenair Series 890 single row metal shell nanominiature connector with same layout.

HOW TO ORDER						
Sample Part Number	890-039		-25P	A2	-BST	1 J
Series	890-039 = Vertical Mount, Thru-Hole PCB Plug 890-040 = Vertical Mount, Thru-Hole PCB Receptacle					
Insert Arrangement/ Contact Type	Plugs (890-039): 5P, 9P, 15P, 21P, 25P, 31P, 37P, 51P Receptacles (890-040): 5S, 9S, 15S, 21S, 25S, 31S, 37S, 51S					
Shell Material and Finish	A1 = Aluminum Shell, Cadmium Plating A31 = Aluminum Shell, Zinc Nickel Plating, Black S = Stainless Steel Shell, Passivated		A2 = Aluminum Shell, Electroless Nickel Plating A33 = Aluminum Shell, Nickel PTFE Plating T = Titanium Shell, Unplated			
Termination Type	BST - Board Straight Thru-Hole					
PC Tail Length	1 = .110 (2.79) 2 = .172 (4.37) 3 = .140 (3.56)					
Hardware	J = Hex Head Jackscrew T = Female Thread (stainless steel inserts installed in aluminum shells, tapped directly into stainless steel and titanium shells).					

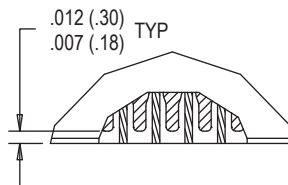


PERFORMANCE SPECIFICATIONS
Contact Spacing: .025" (0.64) contact centers
Current Rating: 1 AMP maximum tested per EIA-364-70
DWV: 250 VAC RMS sea level, 100 VAC RMS 70,000 feet per EIA-364-26 Megohms
Insulation Resistance: 5000 minimum test voltage 100 VDC, per EIA-364 Procedure 21
Operating Temperature: -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



NOTES

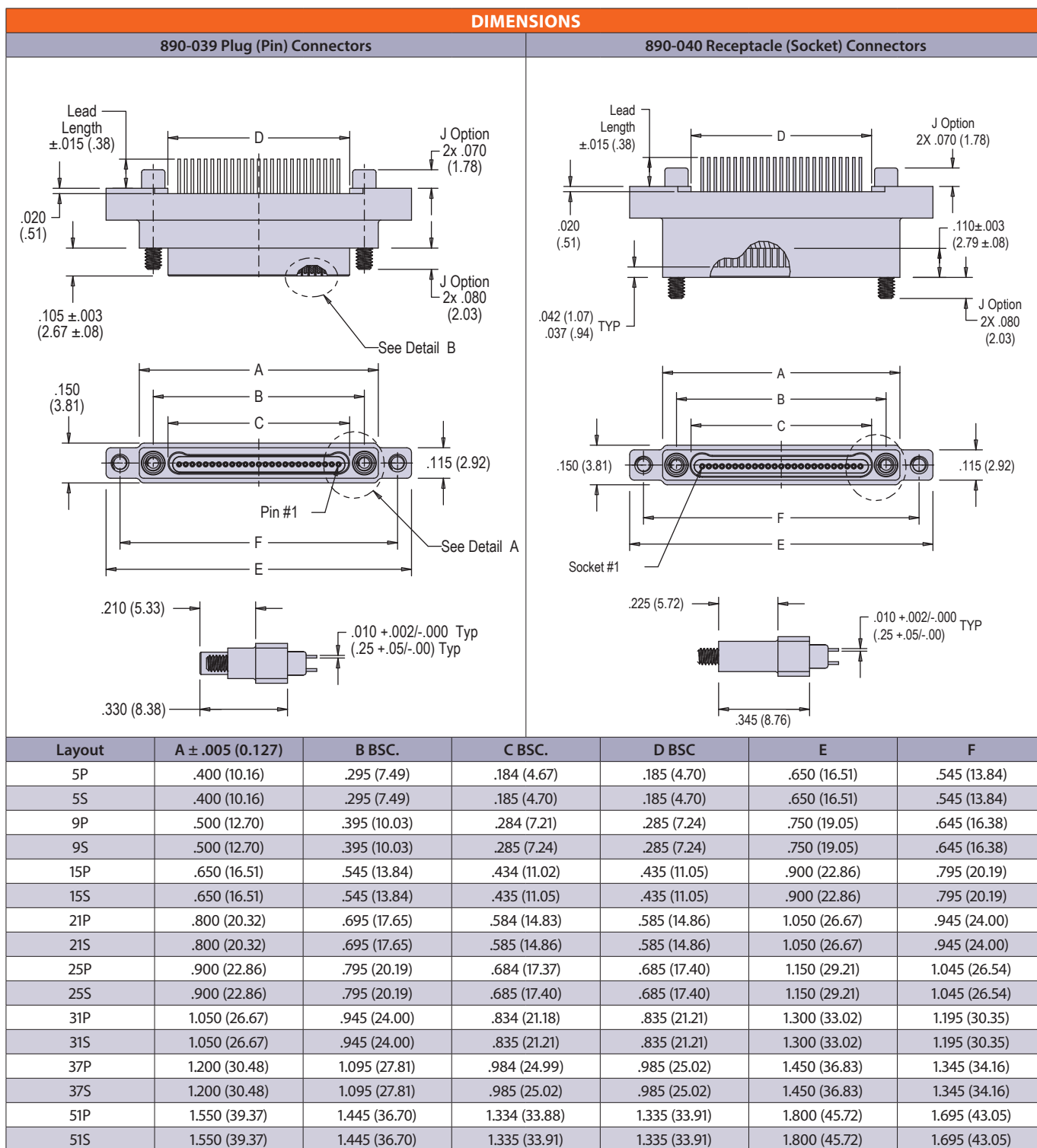
- Material and finish:
 - Shell: see part number breakdown
 - Insulator: LCP N/A
 - Pre-tinned PC tails: coated with Sn63Pb37 or Sn60Pb40 tin-lead
- Contacts: gold alloy/unplated
- Hardware: stainless steel, passivated
- Inspect and Test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/5 and MIL-DTL-32139/6

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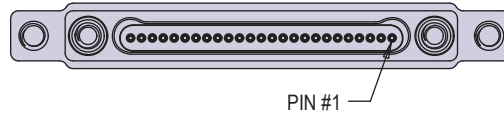
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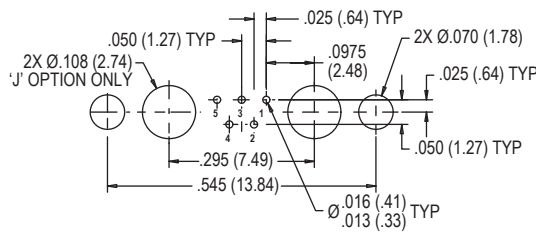
890-039 Vertical-Mount Thru-Hole PCB Connectors with Mounting Ears - Plug Footprints

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

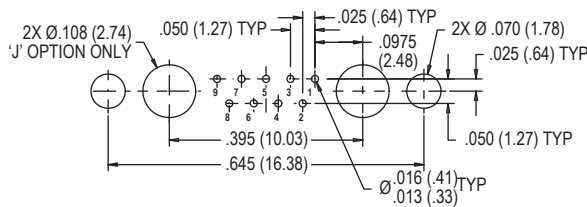
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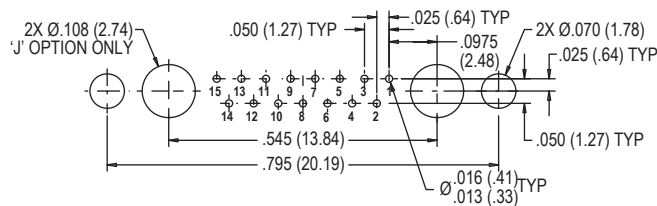
5 Contacts



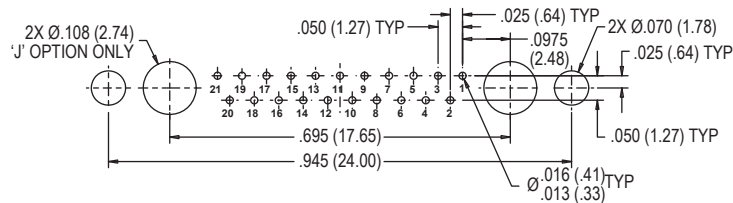
9 Contacts



15 Contacts



21 Contacts



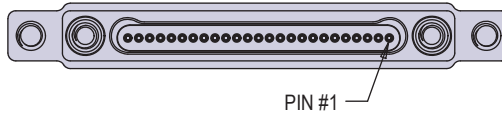
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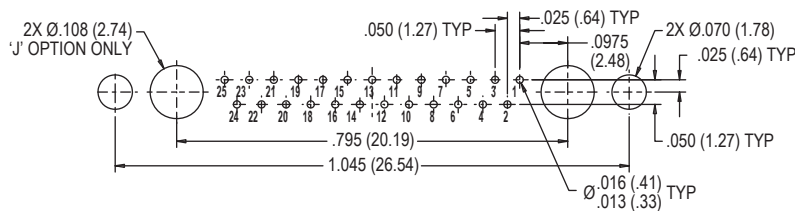
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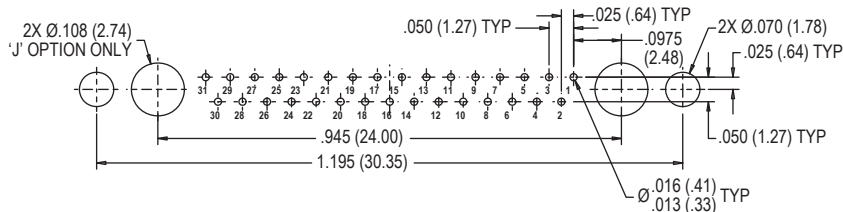
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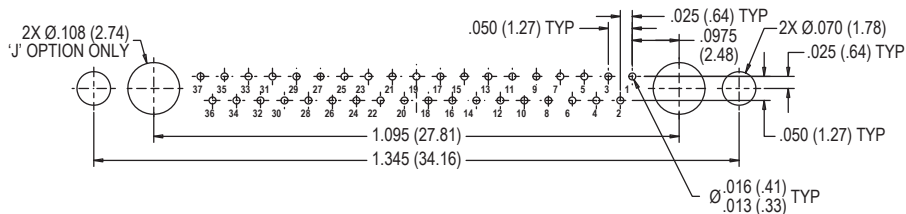
25 Contacts



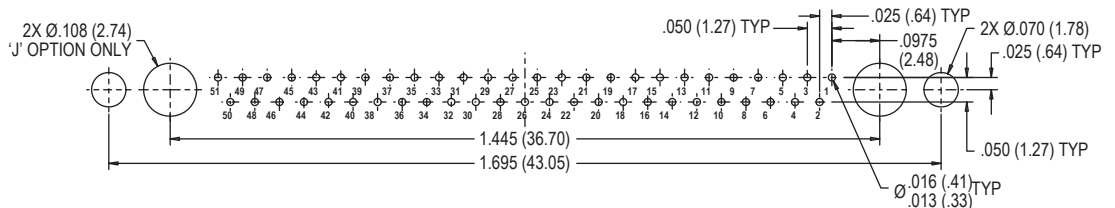
31 Contacts



37 Contacts



51 Contacts



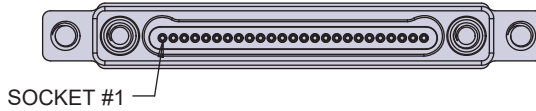
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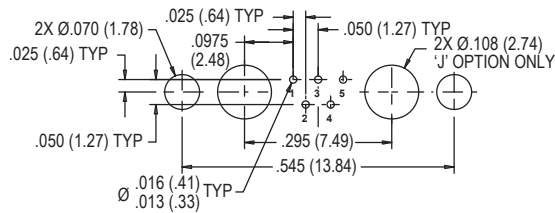
890-040 Vertical-Mount Thru-Hole PCB Connectors with Mounting Ears - Receptacle Footprints

Vertical PCB Receptacle (socket) connector layout patterns shown are for the connector mounting side of PC board

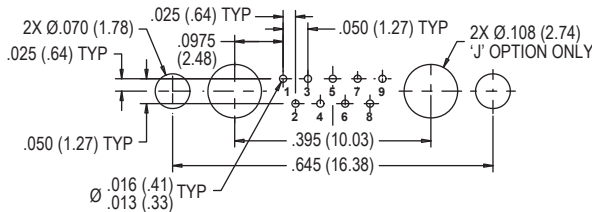
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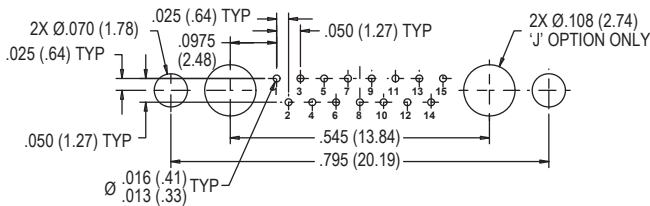
5 Contacts



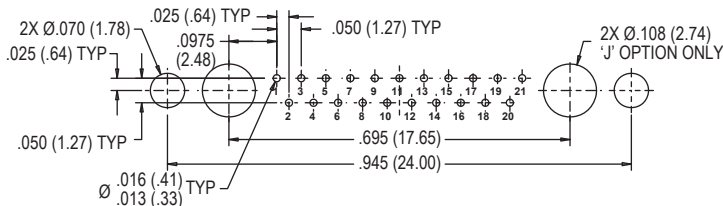
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15 Contacts



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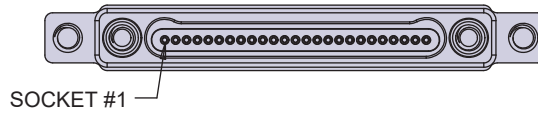


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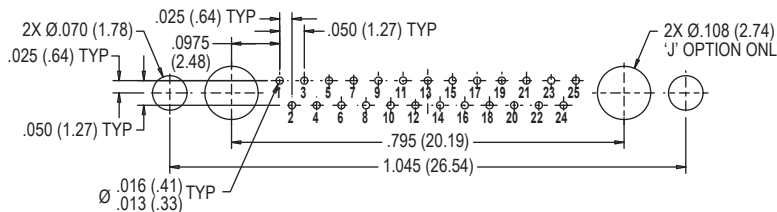


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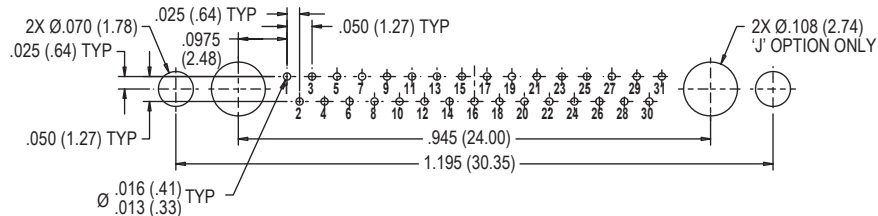
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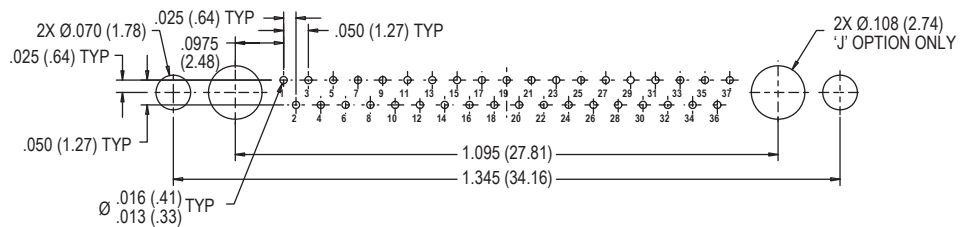
25 Contacts



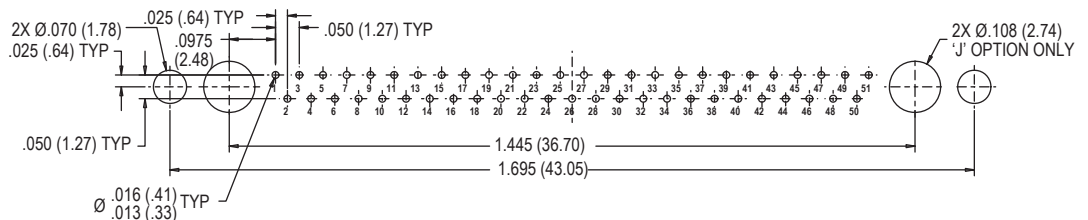
31 Contacts



37 Contacts



51 Contacts



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