

SERIES 89 NANOMINIATURE Single-Row Rectangular Connectors



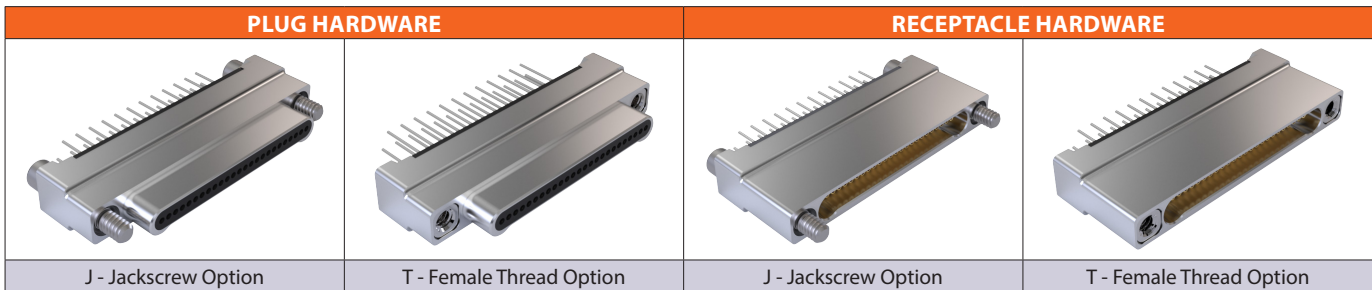
890-006 and 890-007 Plug and Receptacle Vertical-Mount Thru-Hole PCB Connectors

SINGLE-ROW RECTANGULAR CONNECTORS

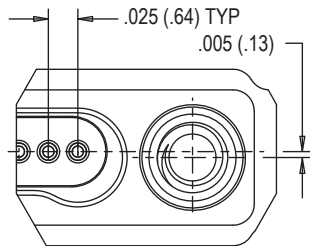


Vertical-Mount Thru-Hole PCB Nano Connectors feature gold alloy TwistPin contacts. These nanominiature connectors offer premium performance and reliability for demanding applications. Available with #0-80 female threads, or with jackscrews for use with flexible circuits. Pre-Tinned PC Tails are coated with Sn60Pb40 or Sn63Pb37 tin-lead for excellent solderability. Choose Aluminum, Titanium or Stainless Steel Shells in eight layouts from 5 to 51 contacts. Complies to the requirements of MIL-DTL-32139. These connectors are intermateable with any corresponding Glenair Series 890 single row metal shell Nanominiature connector.

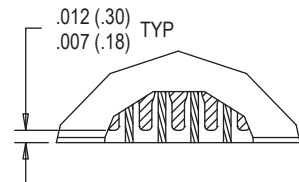
HOW TO ORDER						
Sample Part Number	890-007		-25S	A2	-BST	1 T
Series	890-006 = Plug, Pin Contacts, Single Row, Vertical-Mount PCB 890-007 = Receptacle, Socket Contacts, Single Row, Vertical-Mount PCB					
Insert Arrangement/ Contact Type	Plugs (890-006): 5P, 9P, 15P, 21P, 25P, 31P, 37P, 51P Receptacles (890-007): 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	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, #0-80 T = Female Thread, #0-80* *Stainless Steel Inserts installed in Aluminum Shells, tapped directly into Stainless Steel and Titanium Shells)					



DETAIL A



DETAIL B



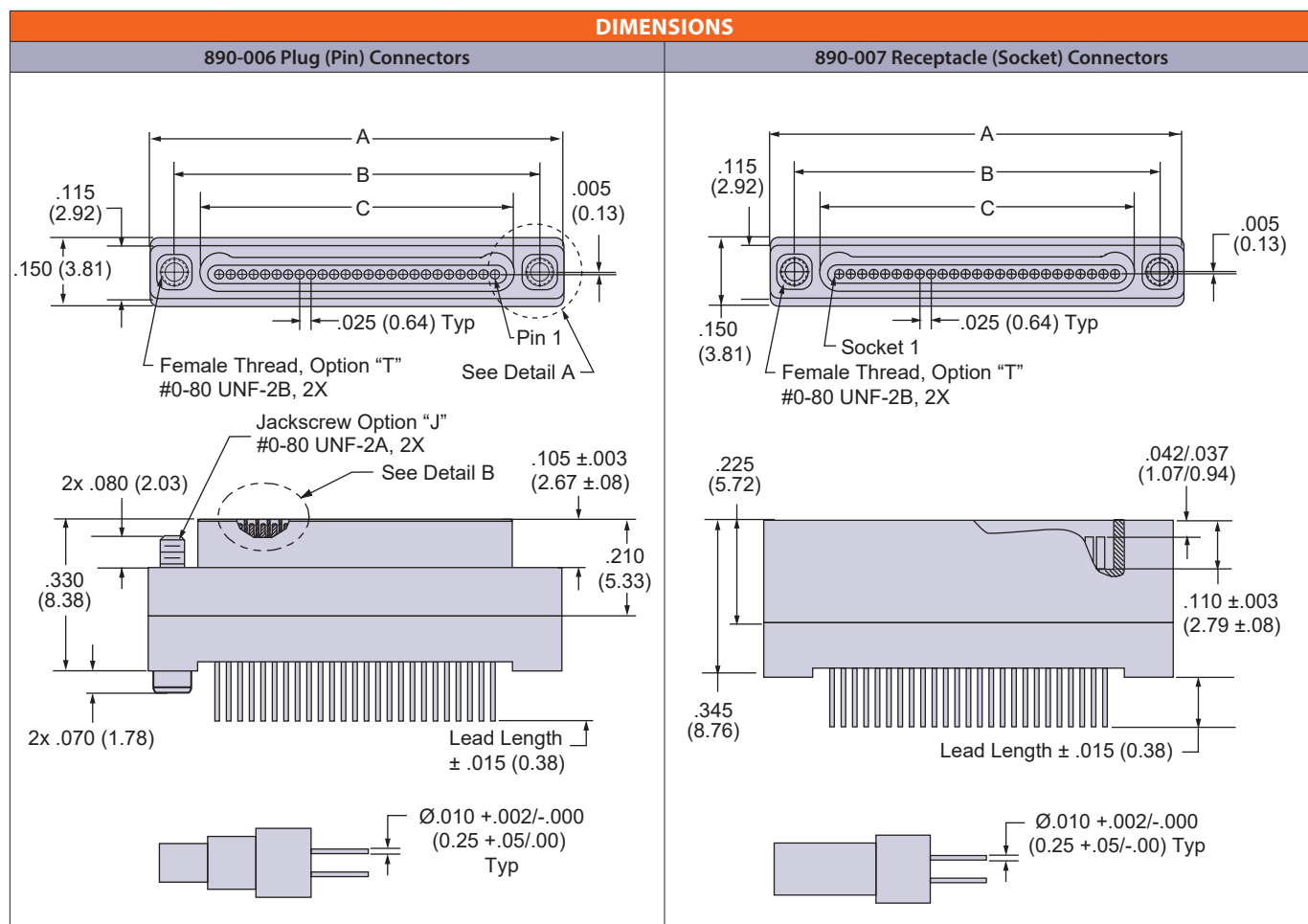
PERFORMANCE SPECIFICATIONS

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	

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Layout	A ± .005 (0.127)	B BSC.	C BSC.
5P	.400 (10.16)	.295 (7.49)	.184 (4.67)
5S	.400 (10.16)	.295 (7.49)	.185 (4.70)
9P	.500 (12.70)	.395 (10.03)	.284 (7.21)
9S	.500 (12.70)	.395 (10.03)	.285 (7.24)
15P	.650 (16.51)	.545 (13.84)	.434 (11.02)
15S	.650 (16.51)	.545 (13.84)	.435 (11.05)
21P	.800 (20.32)	.695 (17.65)	.584 (14.83)
21S	.800 (20.32)	.695 (17.65)	.585 (14.86)
25P	.900 (22.86)	.795 (20.19)	.684 (17.37)
25S	.900 (22.86)	.795 (20.19)	.685 (17.40)
31P	1.050 (26.67)	.945 (24.00)	.834 (21.18)
31S	1.050 (26.67)	.945 (24.00)	.835 (21.21)
37P	1.200 (30.48)	1.095 (27.81)	.984 (24.99)
37S	1.200 (30.48)	1.095 (27.81)	.985 (25.02)
51P	1.550 (39.37)	1.445 (36.70)	1.334 (33.88)
51S	1.550 (39.37)	1.445 (36.70)	1.335 (33.91)

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-32139/5 and MIL-DTL-32139/6

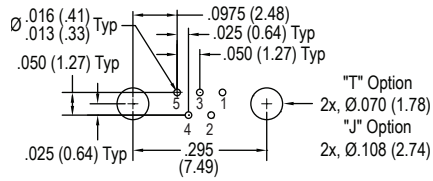
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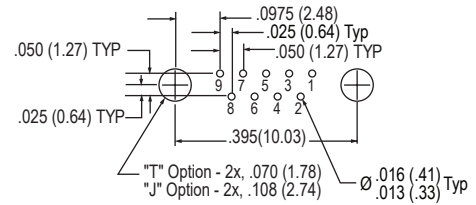
890-006 Vertical-Mount Thru-Hole PCB Connectors - Plug Footprints

SINGLE-ROW RECTANGULAR CONNECTORS

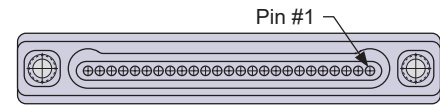
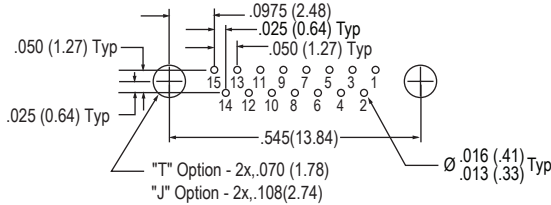
5 Contacts



9 Contacts

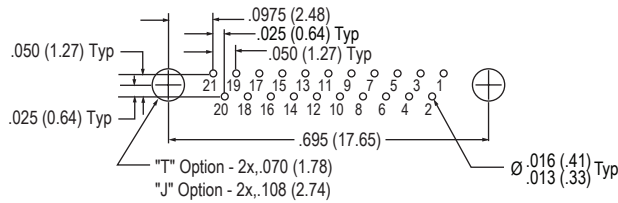


15 Contacts

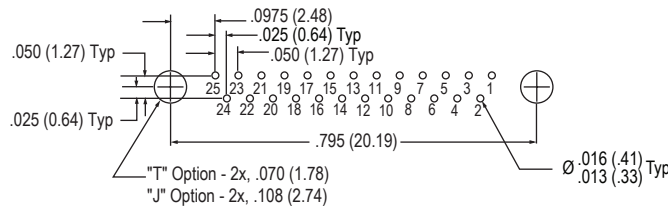


Connector Mating Face

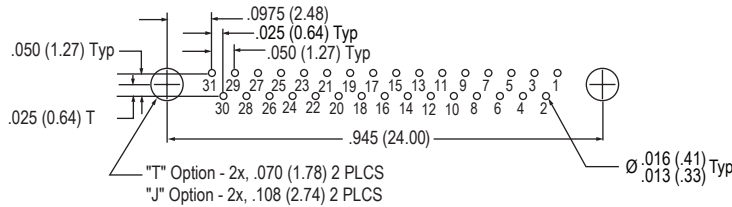
21 Contacts



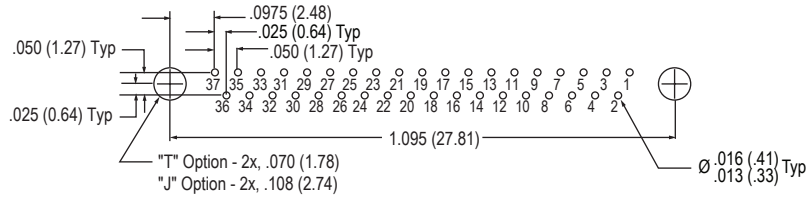
25 Contacts



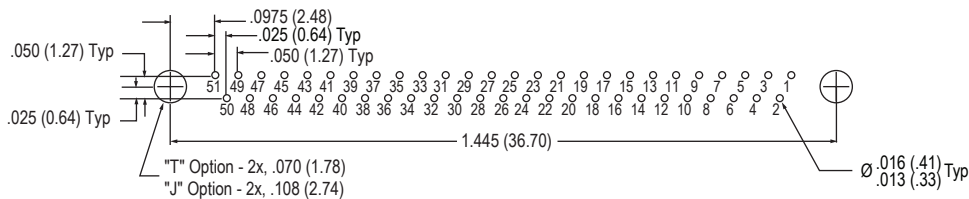
31 Contacts



37 Contacts



51 Contacts



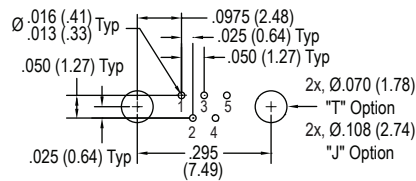
Layouts shown are for connector mounting side of PC Board.

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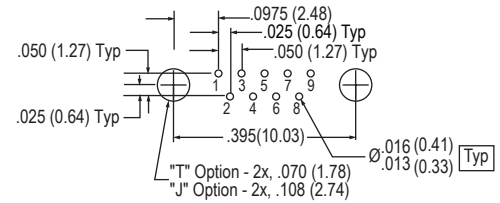


890-007 Vertical-Mount Thru-Hole PCB Connectors - Receptacle Footprints

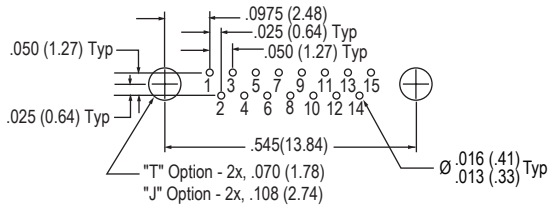
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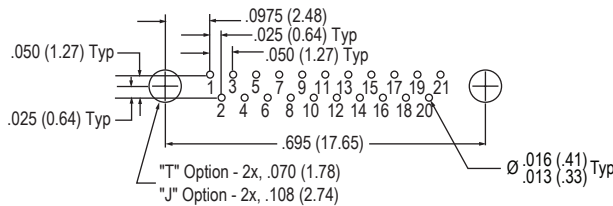
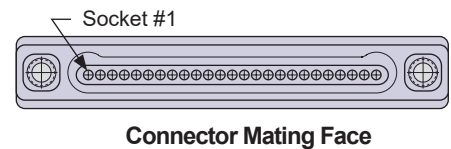
5 Contacts



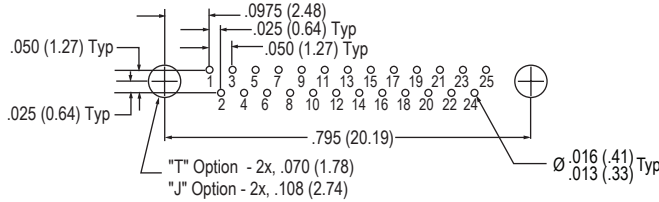
9 Contacts



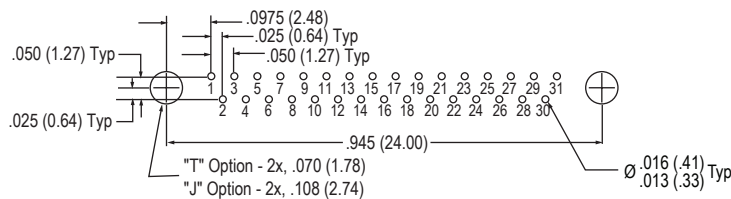
15 Contacts



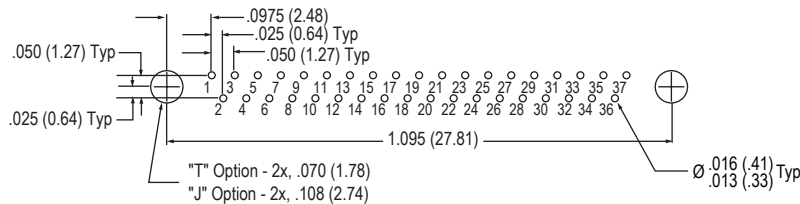
21 Contacts



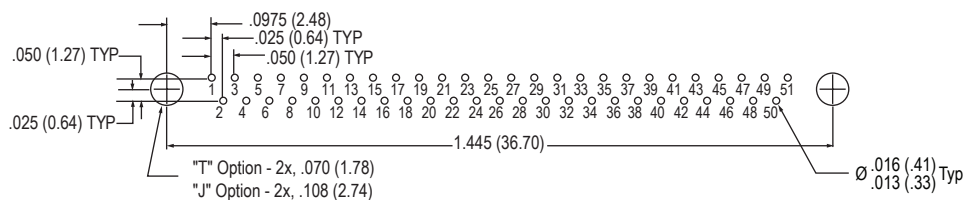
25 Contacts



31 Contacts



37 Contacts



51 Contacts

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