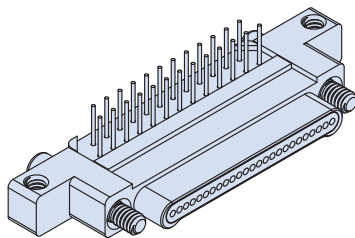


## Right Angle Mount Thru Hole PCB Connectors with Mounting Ears - How to Order

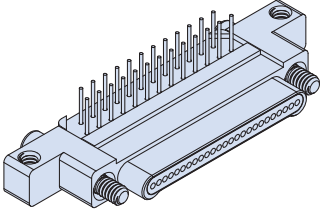
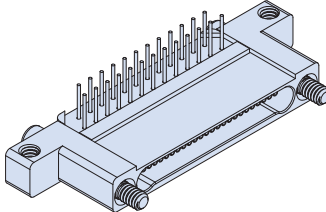


**Right Angle Thru Hole PCB Nano Connectors with Mounting Ears** feature gold alloy TwistPin contacts. These nanomimiatue connectors offer premium performance and reliability for demanding applications. Robust mounting ears allow for jackscrew hardware to be used, available with #0-80 female threads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

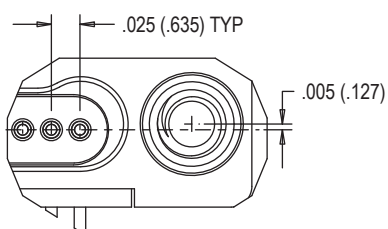
| How to Order                        |                                                                                                                                                                                        |      |    |      |   |   |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------|---|---|
| Sample Part Number                  | 890-043                                                                                                                                                                                | -25P | A2 | -BRT | 1 | J |
| Series                              | 890-043 = Right Angle, Thru Hole PCB Plug<br>890-044 = Right Angle, Thru Hole PCB Receptacle                                                                                           |      |    |      |   |   |
| Insert Arrangement/<br>Contact Type | Plugs (890-043): <b>5P, 9P, 15P, 21P, 25P, 31P, 37P, 51P</b><br>Receptacles (890-044): <b>5S, 9S, 15S, 21S, 25S, 31S, 37S, 51S</b>                                                     |      |    |      |   |   |
| Shell Material<br>and Finish        | <b>A1</b> = Aluminum Shell, Cadmium Plating <b>S</b> = Stainless Steel Shell, Passivated<br><b>A2</b> = Aluminum Shell, Electroless Nickel Plating <b>T</b> = Titanium Shell, Unplated |      |    |      |   |   |
| Termination Type                    | <b>BRT</b> = Board Right Angle Thru Hole                                                                                                                                               |      |    |      |   |   |
| PC Tail Length                      | <b>1</b> = .110 (2.79) <b>2</b> = .172 (4.37) <b>3</b> = .140 (3.56)                                                                                                                   |      |    |      |   |   |
| Hardware                            | <b>J</b> = Hex Head Jackscrew                                                                                                                                                          |      |    |      |   |   |

| Plug (Pin) Connector                                                                | Receptacle (Socket) Connector                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| J - Jackscrew                                                                       | J - Jackscrew                                                                       |

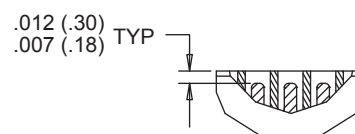
### NOTES

- 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
- Inspect and Test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/7 and MIL-DTL-32139/8

### DETAIL A



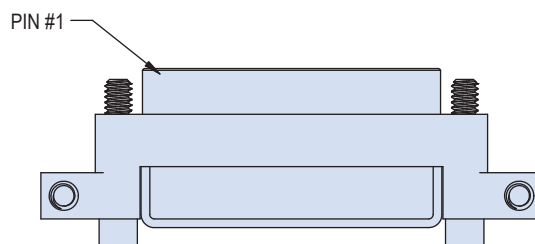
### DETAIL B



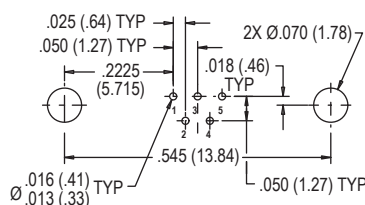
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                |            |            |        |       |                                                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| 890-043 Plug (Pin) Connectors                                                                                                                                                                                                                                                                                                                                                             |            |            |        |       | 890-044 Receptacle (Socket) Connectors                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |       |
| <p>Technical drawing of 890-043 Plug (Pin) Connector. Dimensions shown: A, B, C, D, E. Pin #1. Detail A shows dimensions .016 (.41), .0725 (1.84), .130 (3.30). Detail B shows dimensions .105 ± .003 (2.67 ± .08), .187 (4.75), .345 (8.76), .018 (.46), .050 (9.27), .080 (2.03), .365 (9.27). Lead Length ± .015 (.38). Bore diameter Ø.010 + .002 / -.000 Typ (.25 + .05 / -.00).</p> |            |            |        |       | <p>Technical drawing of 890-044 Receptacle (Socket) Connector. Dimensions shown: A, B, C, D, E. Socket #1. Detail A shows dimensions .016 (.41), .0725 (1.84), .130 (3.30). Other dimensions: .042 (1.06), .037 (.94) Typ, .110 ± .003, .292 (7.42), .018 (.46), .050 (1.27), .344 (8.74), .365 (9.27). Lead Length ± .015 (.38). Bore diameter Ø.010 + .002 / -.000 Typ (.25 + .05 / -.00).</p> |       |       |       |       |       |
| Layout                                                                                                                                                                                                                                                                                                                                                                                    | A          |            | B BSC. |       | C BSC.                                                                                                                                                                                                                                                                                                                                                                                           |       | D     |       | E BSC |       |
|                                                                                                                                                                                                                                                                                                                                                                                           | In. ± .005 | mm. ± 0.13 | In.    | mm.   | In.                                                                                                                                                                                                                                                                                                                                                                                              | mm.   | In    | mm    | In    | mm    |
| 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 |

## Right Angle Mount Thru Hole PCB Connectors with Mounting Ears - Plug Footprints

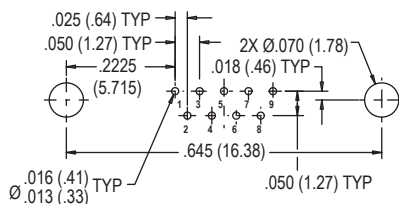
Right angle PCB plug (pin) connector layout patterns shown are for the connector mounting side of PC board



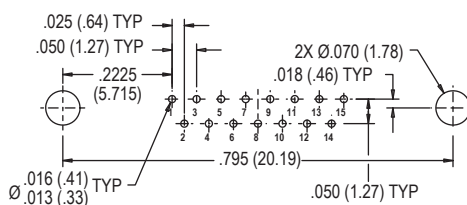
### 5 Contacts



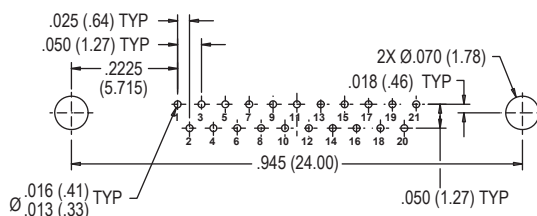
### 9 Contacts



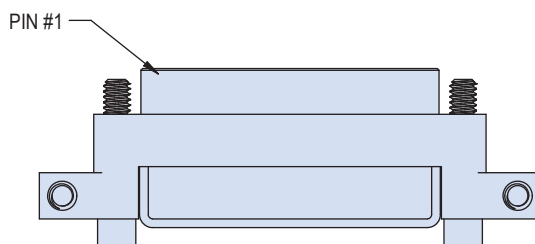
### 15 Contacts



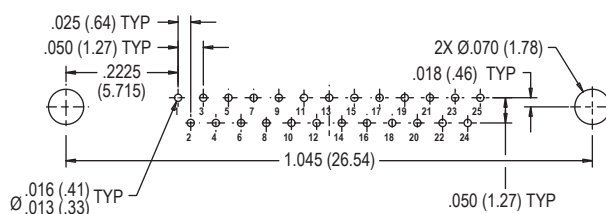
### 21 Contacts



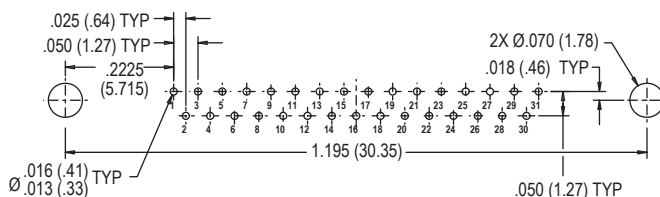
Right angle PCB plug (pin) connector layout patterns shown are for the connector mounting side of PC board



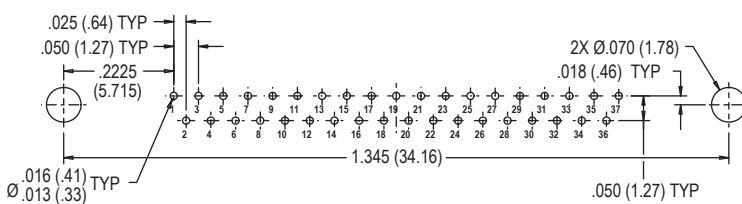
### 25 Contacts



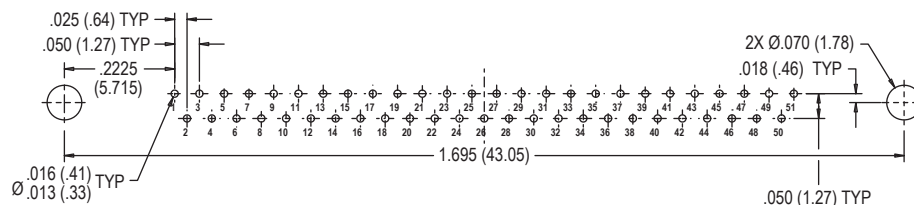
### 31 Contacts



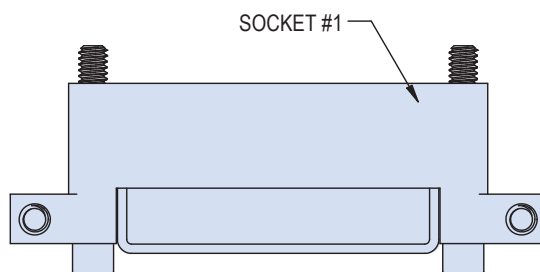
### 37 Contacts



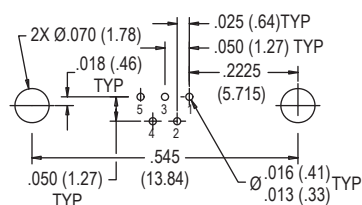
### 51 Contacts



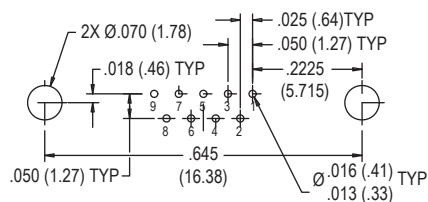
Right angle PCB receptacle (socket) connector layout patterns shown are for the connector mounting side of PC board



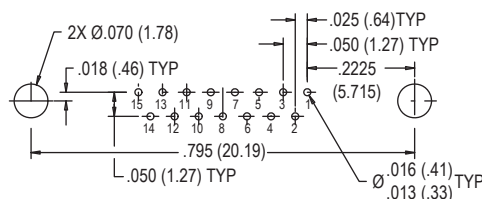
### 5 Contacts



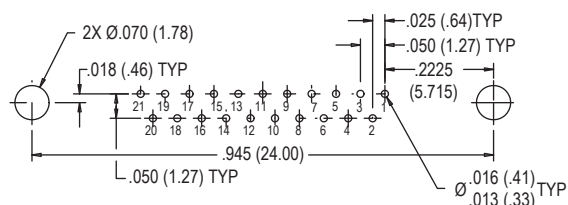
### 9 Contacts



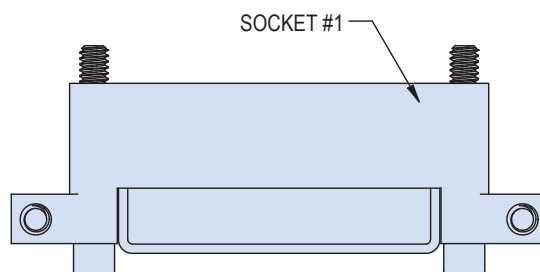
### 15 Contacts



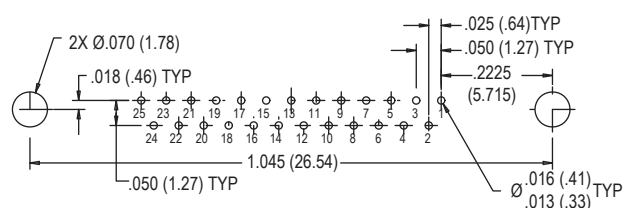
### 21 Contacts



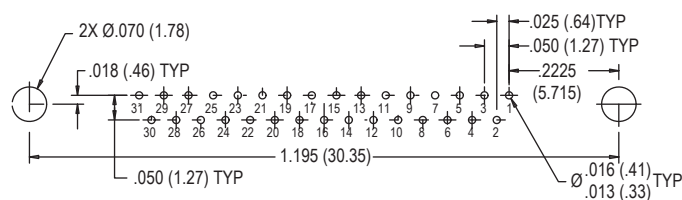
Right angle PCB receptacle (socket) connector layout patterns shown are for the connector mounting side of PC board



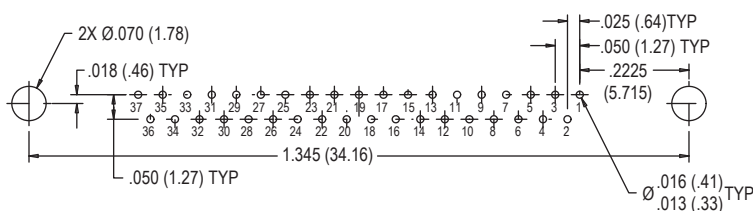
### 25 Contacts



### 31 Contacts



### 37 Contacts



### 51 Contacts

