

# SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



## 891-035 and 891-036 Rear Panel Mount, Gasket-Sealed, Straddle Mount Connector

DUAL-ROW RECTANGULAR CONNECTORS



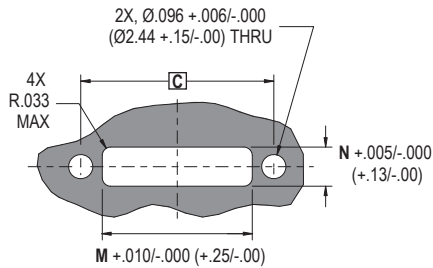
**Rear Panel Mount, Straddle Mount PCB Connectors** feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with female threads for use with flexible circuits. Pre-Tinned PC Tails are coated with Sn63Pb37 or Sn60Pb40 tin-lead for excellent solderability. Titanium or Stainless Steel Shells in twelve layouts from 9 to 91

contacts. MIL-DTL-32139 type connectors are intermateable with any corresponding Glenair Series 891 Dual-Row metal shell nanominiature connector.

**Gasket Seals** fluorosilicone, Cho-Seal 1298 and Cho-Seal 6503 available. For replacement gaskets see 899-015.

### HOW TO ORDER

Sample Part Number	891-035	-25P	S	-STM	T	-01	M
<b>Series</b>	891-035 = Plug, Straddle Mount Connector 891-036 = Receptacle, Straddle Mount Connector						
<b>Insert Arrangement/ Contact Type</b>	Pins (891-035 Plug): <b>9P, 15P, 21P, 25P, 31P, 37P, 41P, 51P, 65P, 69P, 85P, 91P</b> Sockets (891-036 Receptacle): <b>9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85S, 91S</b>						
<b>Shell Material and Finish</b>	T = Titanium Shell, Unplated    S = Stainless Steel Shell, Passivated						
<b>Termination Type</b>	STM = Straddle Mount						
<b>Hardware</b>	T = Female Thread (#0-80 for size 9-69, #2-56 for size 85 & 91)						
<b>Gasket Material</b>	Omit for No Gasket 01 = Fluorosilicone IAW MIL-DTL25988 Type II, Class I, Grade 60 02 = Passivated Silver Plated Aluminum Filled Fluorosilicone IAW MIL-DTL-83528 03 = Nickel Plated Aluminum Filled Fluorosilicone, (Cho-Seal 6503 or Equivalent)						
<b>Mounting Thread Option</b>	Omit for #2-56 UNC-2B		M = M2X0.4 6H				



PANEL CUT-OUT DIMENSIONS			
Shell Size	C	M	N
9	.566 (14.38)	.395 (10.03)	.155 (3.94)
15	.641 (16.28)	.470 (11.94)	.155 (3.94)
21	.716 (18.19)	.545 (13.84)	.155 (3.94)
25	.766 (19.46)	.595 (15.11)	.155 (3.94)
31	.841 (21.36)	.670 (17.02)	.155 (3.94)
37	.916 (23.27)	.745 (18.92)	.155 (3.94)
41	.966 (24.54)	.795 (20.19)	.155 (3.94)
51	1.091 (27.71)	.920 (23.37)	.155 (3.94)
65	1.266 (32.16)	1.095 (27.81)	.155 (3.94)
69	1.316 (33.43)	1.145 (29.08)	.155 (3.94)
85	1.568 (39.83)	1.397 (35.48)	.180 (4.57)
91	1.643 (41.73)	1.472 (37.39)	.180 (4.57)

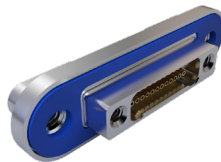
Panel cutout lobe in either up or down orientation.  
Recommended panel thickness .100 (2.54)

### PLUG HARDWARE



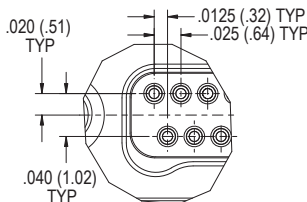
T - Female Thread

### RECEPTACLE HARDWARE



T - Female Thread

### DETAIL A



### 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

# SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors

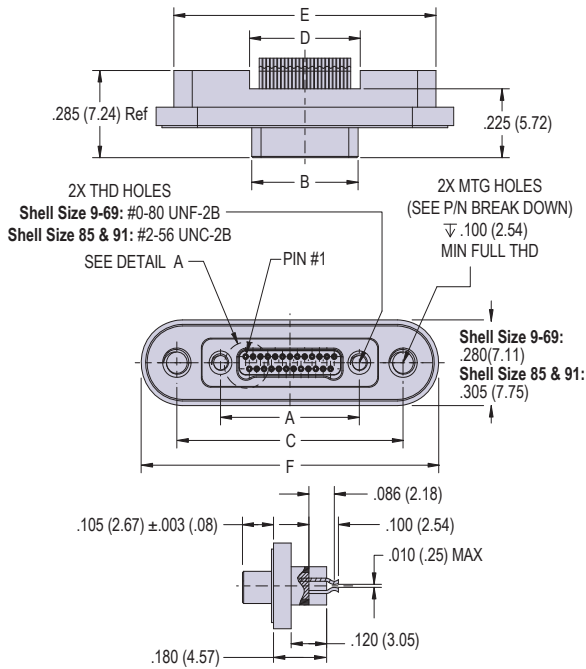


## 891-035 and 891-036 Rear Panel Mount, Gasket-Sealed, Straddle Mount Connector

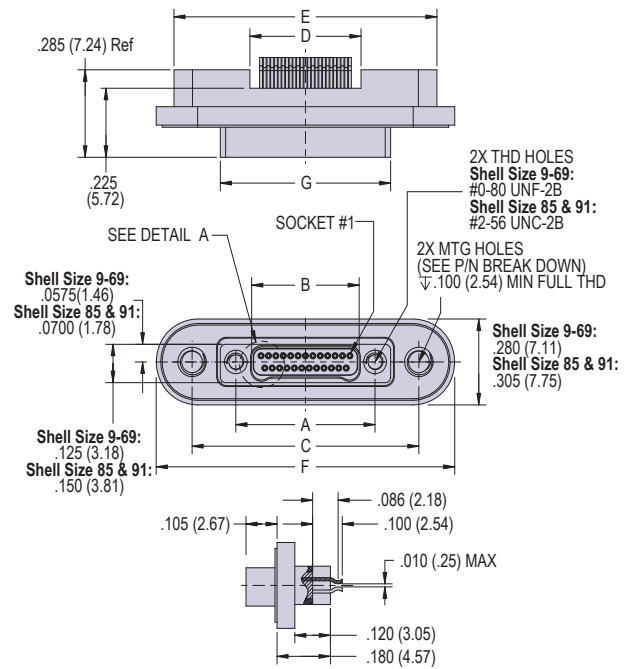
DUAL-ROW RECTANGULAR CONNECTORS

### DIMENSIONS

#### 891-035 Plug (Pin) Connectors



#### 891-036 Receptacle (Socket) Connectors



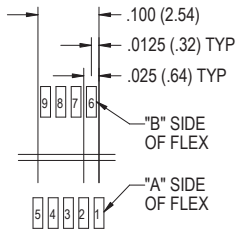
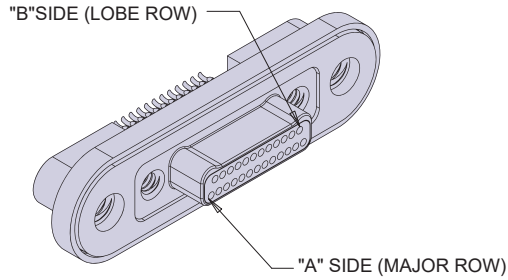
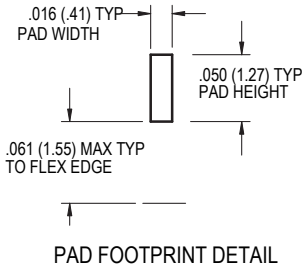
Layout	A BSC.	B BSC.	C BSC.	D	E	F	G
9P	.270 (6.86)	.160 (4.06)	.566 (14.38)	.175 (4.44)	.688 (17.48)	.808 (20.52)	--
9S	.270 (6.86)	.163 (4.14)	.566 (14.38)	.175 (4.44)	.688 (17.48)	.808 (20.52)	.375 (9.52)
15P	.345 (8.76)	.235 (5.97)	.641 (16.28)	.250 (6.35)	.763 (19.38)	.883 (22.43)	--
15S	.345 (8.76)	.238 (6.05)	.641 (16.28)	.250 (6.35)	.763 (19.38)	.883 (22.43)	.450 (11.43)
21P	.420 (10.67)	.310 (7.87)	.716 (18.19)	.325 (8.25)	.838 (21.29)	.958 (24.33)	--
21S	.420 (10.67)	.313 (7.95)	.716 (18.19)	.325 (8.25)	.838 (21.29)	.958 (24.33)	.525 (13.34)
25P	.470 (11.94)	.360 (9.14)	.766 (19.46)	.375 (9.52)	.888 (22.56)	1.008 (25.60)	--
25S	.470 (11.94)	.363 (9.22)	.766 (19.46)	.375 (9.52)	.888 (22.56)	1.008 (25.60)	.575 (14.60)
31P	.545 (13.84)	.435 (11.05)	.841 (21.36)	.450 (11.43)	.963 (24.46)	1.083 (27.51)	--
31S	.545 (13.84)	.438 (11.13)	.841 (21.36)	.450 (11.43)	.963 (24.46)	1.083 (27.51)	.650 (16.51)
37P	.620 (15.75)	.510 (12.95)	.916 (23.27)	.525 (13.34)	1.038 (26.37)	1.158 (29.41)	--
37S	.620 (15.75)	.513 (13.03)	.916 (23.27)	.525 (13.34)	1.038 (26.37)	1.158 (29.41)	.725 (18.42)
41P	.670 (17.02)	.560 (14.22)	.966 (24.54)	.575 (14.60)	1.088 (27.64)	1.208 (30.68)	--
41S	.670 (17.02)	.563 (14.30)	.966 (24.54)	.575 (14.60)	1.088 (27.64)	1.208 (30.68)	.775 (19.68)
51P	.795 (20.19)	.685 (17.40)	1.091 (27.71)	.700 (17.78)	1.213 (30.81)	1.333 (33.86)	--
51S	.795 (20.19)	.688 (17.48)	1.091 (27.71)	.700 (17.78)	1.213 (30.81)	1.333 (33.86)	.900 (22.86)
65P	.970 (24.64)	.860 (21.84)	1.266 (32.16)	.875 (22.23)	1.388 (35.26)	1.508 (38.30)	--
65S	.970 (24.64)	.863 (21.92)	1.266 (32.16)	.875 (22.23)	1.388 (35.26)	1.508 (38.30)	1.075 (27.30)
69P	1.020 (25.91)	.910 (23.11)	1.316 (33.43)	.925 (23.50)	1.438 (36.53)	1.558 (39.57)	--
69S	1.020 (25.91)	.913 (23.19)	1.316 (33.43)	.925 (23.50)	1.438 (36.53)	1.558 (39.57)	1.125 (28.58)
85P	1.246 (31.65)	1.110 (28.19)	1.568 (39.83)	1.125 (28.58)	1.690 (42.93)	1.810 (45.97)	--
85S	1.246 (31.65)	1.113 (28.27)	1.568 (39.83)	1.125 (28.58)	1.690 (42.93)	1.810 (45.97)	1.377 (34.98)
91P	1.321 (33.55)	1.185 (30.10)	1.643 (41.73)	1.200 (30.48)	1.765 (44.83)	1.885 (47.88)	--
91S	1.321 (33.55)	1.188 (30.18)	1.643 (41.73)	1.200 (30.48)	1.765 (44.83)	1.885 (47.88)	1.452 (36.88)

# SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors

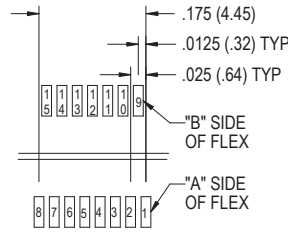


## 891-035 Rear Panel Mount, Gasket-Sealed, Straddle Mount - Plug Pad Footprint

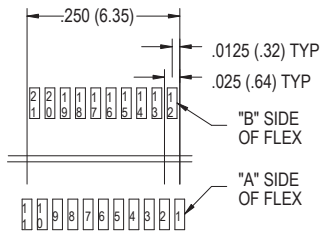
DUAL-ROW RECTANGULAR CONNECTORS



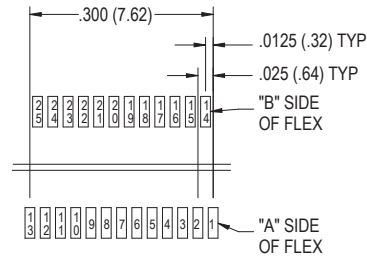
**9 Contacts**



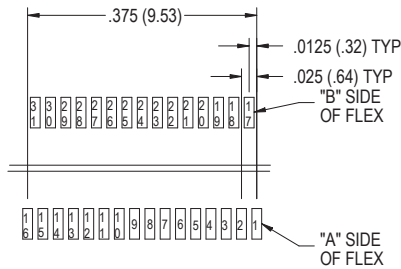
**15 Contacts**



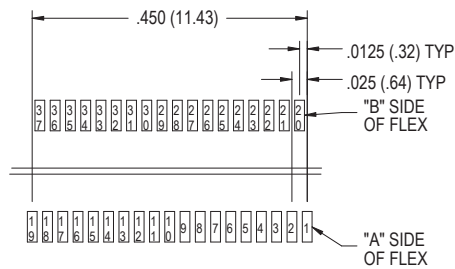
**21 Contacts**



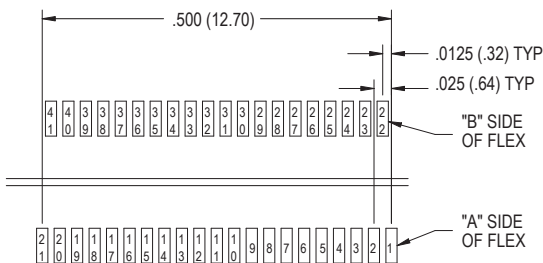
**25 Contacts**



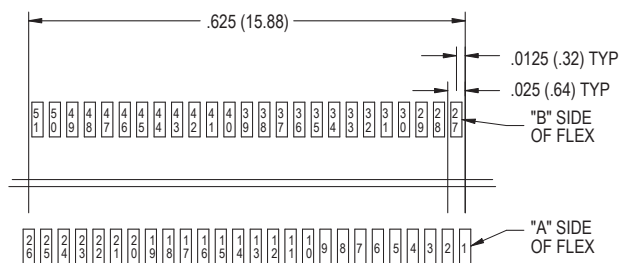
**31 Contacts**



**37 Contacts**



**41 Contacts**



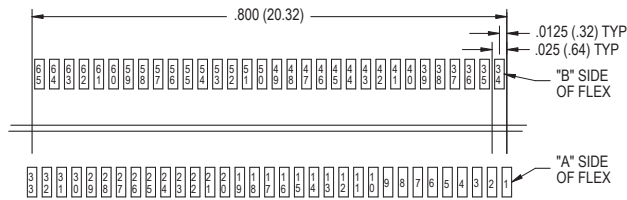
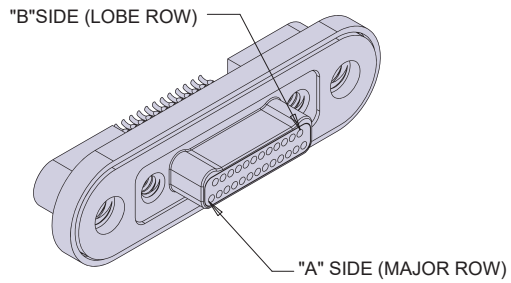
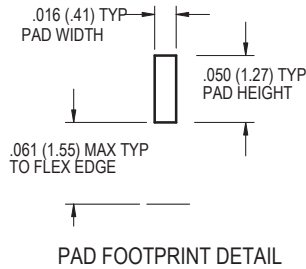
**51 Contacts**

Layouts shown are for connector mounting side of PC Board.

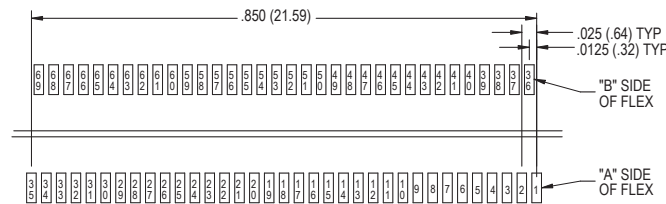
# SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



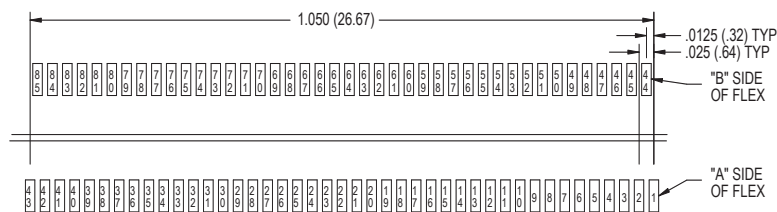
## 891-035 Rear Panel Mount, Gasket-Sealed, Straddle Mount - Plug Pad Footprint



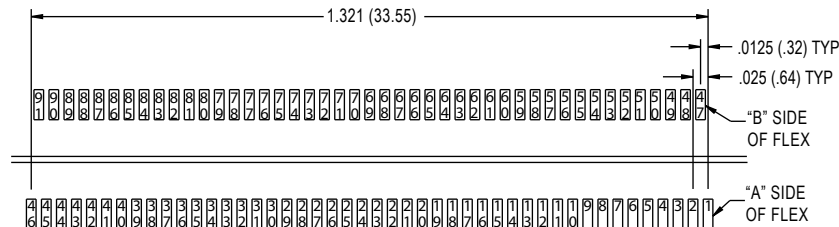
### 65 Contacts



### 69 Contacts



### 85 Contacts



### 91 Contacts

Layouts shown are for connector mounting side of PC Board.

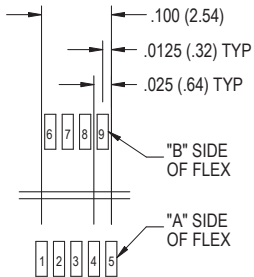
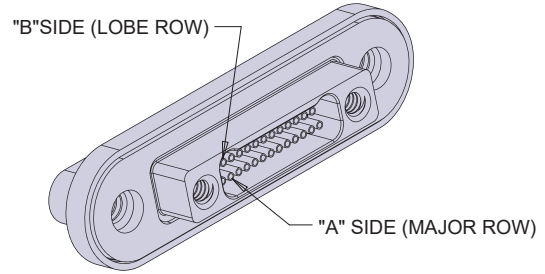
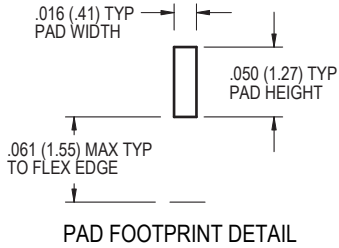
DUAL-ROW RECTANGULAR CONNECTORS

# SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors

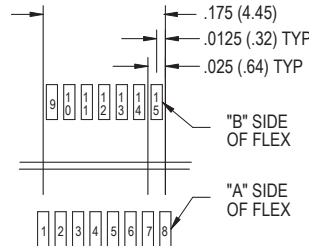


## 891-036 Rear Panel Mount, Gasket-Sealed, Straddle Mount - Receptacle Pad Footprint

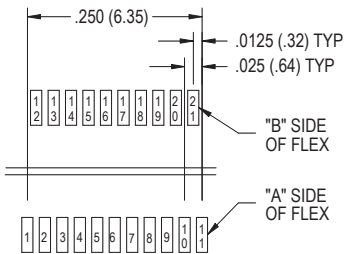
DUAL-ROW RECTANGULAR CONNECTORS



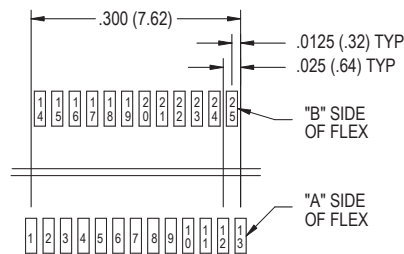
**9 Contacts**



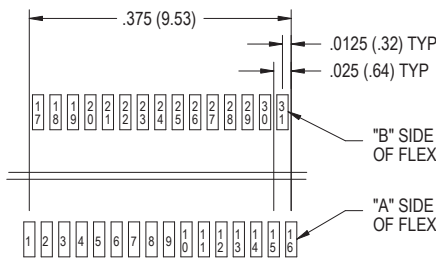
**15 Contacts**



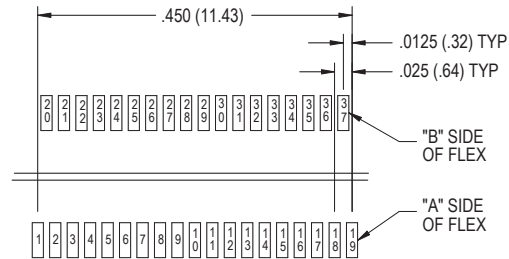
**21 Contacts**



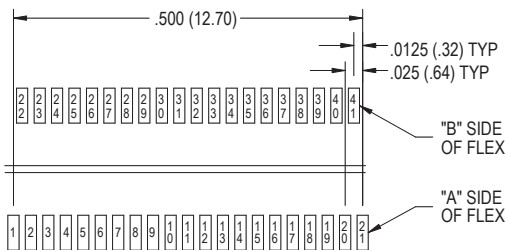
**25 Contacts**



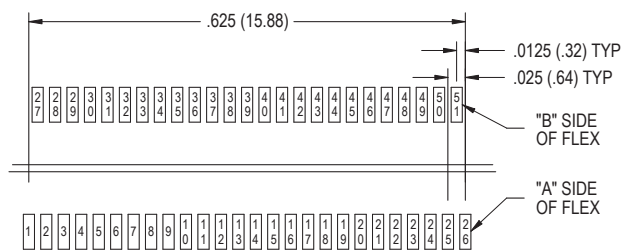
**31 Contacts**



**37 Contacts**



**41 Contacts**



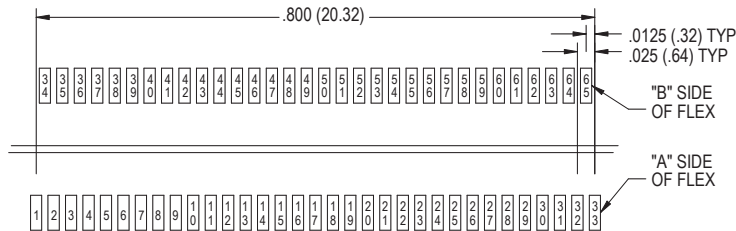
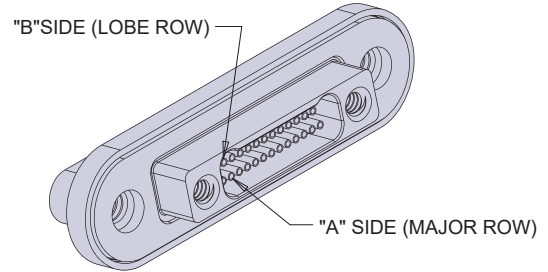
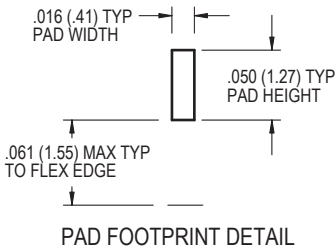
**51 Contacts**

Layouts shown are for connector mounting side of PC Board.

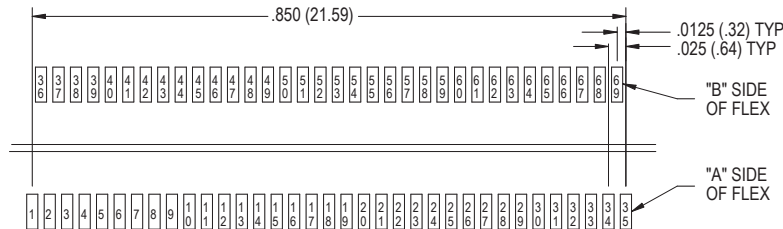
# SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



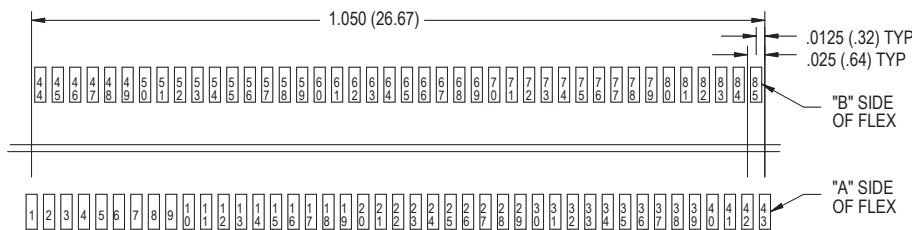
## 891-036 Rear Panel Mount, Gasket-Sealed, Straddle Mount - Receptacle Pad Footprint



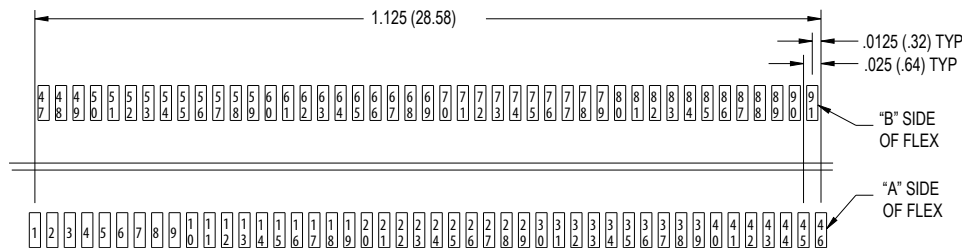
### 65 Contacts



### 69 Contacts



### 85 Contacts



### 91 Contacts

Layouts shown are for connector mounting side of PC Board.