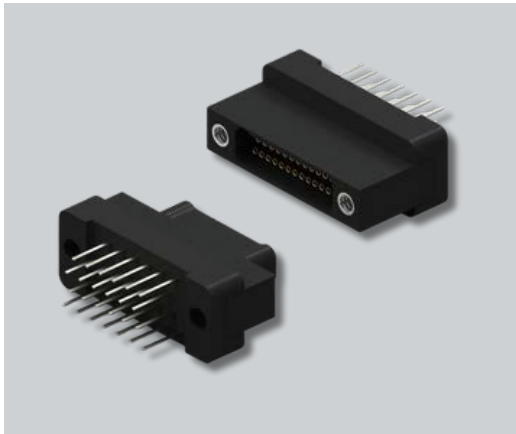


Vertical Dual Row Plated Thru Hole Plastic Shell (Style 6)

Winchester Interconnect Micro offers Nano PCB Vertical Dual Row Plated Thru Hole Plastic Shell (Style 6) Connectors, designed for compact, high-performance PCB applications. Featuring a plastic shell with plated thru-hole .050 x .050 (Style 6) configuration, these connectors include a 1-piece contact and flat tail termination for strong, reliable solder connections. They operate across a -55°C to 125°C temperature range, with high-temperature versions available up to 200°C (add HT), ensuring dependable performance in demanding environments.

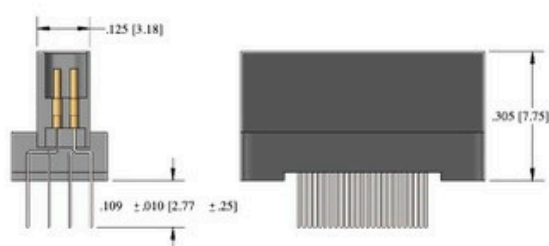
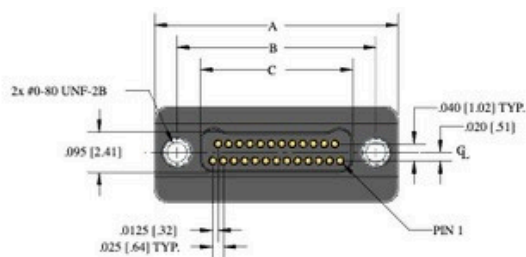
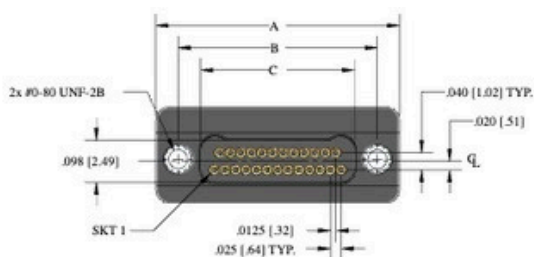


KEY FEATURES & BENEFITS

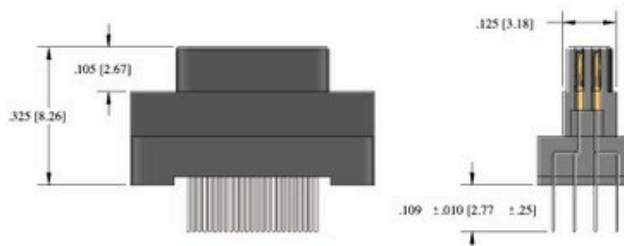
- Lightweight Plastic Shell – Provides strength and weight reduction for compact designs.
- 1-Piece Contact with Flat Tail – Delivers stable electrical performance and secure solder joints.
- Wide Temperature Range – Standard operation from -55°C to 125°C ; HT versions up to 200°C .
- Flexible Configurations – Available with 9 to 65 contacts for various design needs.
- QPL Qualified – Meets MIL-DTL-32139 military performance standards.
- Ideal for Space-Sensitive PCB Applications – Perfect for aerospace, medical, and instrumentation systems requiring precision and reliability.

Nano PCB Vertical Dual Row Plated Thru Hole Plastic Shell (Style 6)

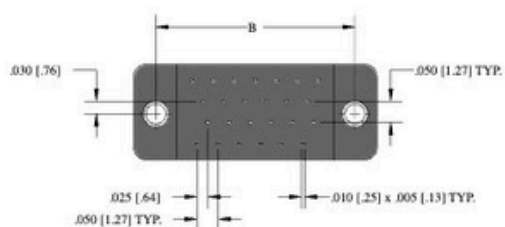
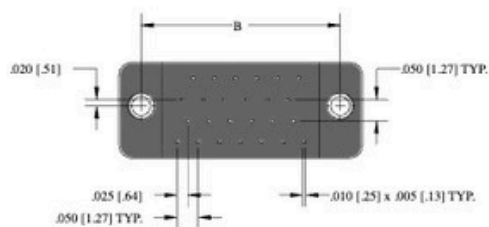
DIMENSIONAL



RECEPTACLE (SOCKETS)



PLUG (PINS)



Size	A	B	C		D
			Receptacle	Plug	
9	.375 [9.52]	.270 [6.86]	.160 [4.06]	.163 [4.14]	.175 [4.44]
15	.450 [11.43]	.345 [8.76]	.235 [5.97]	.238 [6.04]	.250 [6.35]
21	.525 [13.33]	.420 [10.67]	.310 [7.87]	.313 [7.95]	.325 [8.25]
25	.575 [14.60]	.470 [11.94]	.360 [9.14]	.363 [9.22]	.375 [9.52]
31	.650 [16.51]	.545 [13.84]	.435 [11.05]	.438 [11.12]	.450 [11.43]
37	.725 [18.41]	.620 [15.75]	.510 [12.95]	.513 [13.03]	.525 [13.33]
51	.900 [22.86]	.795 [20.19]	.685 [17.40]	.688 [17.47]	.700 [17.78]
65	1.075 [27.30]	.970 [24.64]	.860 [21.84]	.863 [21.92]	.875 [22.22]

Nano PCB Vertical Dual Row Plated Thru Hole Plastic Shell (Style 6)

PERFORMANCE

Electrical Properties	
Contact Resistance	33 milliohm max contact only and 87 milliohms max with 6" wire @ 1A
Current Rating	1A max.
Dielectric WithStanding Voltage	250 VAC at sea level, 100 VAC at 70,000 feet. 1mA leakage current max.
Insulation Resistance	100 VDC and 5000 Megohms min.

Mechanical	
Engaging Force	5 oz max.
Separation Force	.4 oz min.
Mating/Unmating Force	7 oz x # of contacts max.
Vibration	EIA-364-28 Condition IV, 1 microsecond max discontinuity
Shock	EIA-364-27 Condition G, 1 microsecond max discontinuity
Durability	EIA-364-09, 200 matings, passes Mating Force, CR, Eng and Sep Forces

Nano PCB Vertical Dual Row Plated Thru Hole Plastic Shell (Style 6)

MATERIALS

Materials and Finishes	
Signal Pin Contacts	C17410 Beryllium Copper per ASTM B768
Signal Socket Contacts	C17410 Beryllium Copper per ASTM B768
Contact Plating	Gold Plating per ASTM B488
PC Tails	C17410 Beryllium Copper per ASTM B768
PC Tail Plating	60/40 Tin/Lead plating per SAE-AMS-P-81728, or Gold plating per ASTM B488
Shell	6061-T6 Aluminum per SAE-AMS-QQ-A200/8 or 300 Series Stainless Steel per ASTM A582
Shell Plating	Electroless Nickel per SAE-AMS2404, or Cadmium per SAE-AMS-QQ-P-416 or Black Anodize per MIL-A-8625 or Passivated per AMS2700
Insulator Material	LCP(Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F
Hardware	300 Series Stainless Steel per ASTM A 582/A582 or ASTM A 581/A581M, Passivated per SAE AMS-2700

Nano PCB Vertical Dual Row Plated Thru Hole Plastic Shell (Style 6)

HOW TO ORDER

Nano Circuit Series Engineering Number Definitions

Nano Circuit Series	CN	M	6	L	25	-	2	P	07	1	-	0.140	-	S01	-	HT	-	1	SPL
Shell Material																			
M = Metal Shell																			
P = Plastic Shell																			
Termination Style																			
4 = Flex Circuit																			
6 = Vertical PC tails																			
8 = Right Angle PC Tails																			
26 = Vertical SMT																			
28 = Right Angle SMT																			
36 = Low Profile Vertical SMT (Male Only)																			
38 = Extended Profile RA SMT (Female Only)																			
Insulator Material																			
L = LCP																			
Size (No. of Contacts)																			
09, 15, 21, 25, 31, 37, 51, 65, & 69																			
Insulator Type																			
1 = Single Row (Up to size 51)																			
2 = Dual Row																			
Contact Type																			
P = Pin, Integral Flat Tail																			
S = Socket, Integral Flat Tail																			
Mating Hardware																			
0 = No Hardware																			
01 = Phillips Head Jackscrews																			
02 = Hex Head Jackscrews																			
03 = Thumb Jackscrew																			
05 = Slotted Head Jackscrews																			
06 = Floating Phillips Head Jackscrews (Female Only)																			
07 = Threaded Hole																			
08 = Floating (Retractable) Hex Head Jackscrews (Female Only)																			
09 = Floating (Retractable) Slotted Head Jackscrews (Female Only)																			
Special designator - SPL																			
SPL is to be added to the end of the part number if the connector cannot be fully defined by the rest of the engineering number																			
PCB Mounting Options (Style 8, 28, & 38 Only)																			
Blank = Threaded Mounting Holes																			
1 = Alignment Posts with Threaded Mounting Holes																			
2 = Clearance Mounting Holes																			
3 = Alignment Posts with Clearance Mounting Holes																			
4 = Solder Posts (Style 6, 8, 26, 28, 36, & 38)																			
Temperature Rating (Omit for standard Temp, 125°C)																			
Blank = 125°C																			
HT = 200°C																			
LO = 4 Kelvin																			
Shell Plating or Material (Omit for plastic shell or cadmium plating)																			
Blank = Cadmium																			
S01 = Electroless Nickel																			
S02 = Chem Film																			
S03 = Black Anodized																			
S04 = Gold																			
S05 = Titanium																			
S06 = Olive-Drab Cadmium																			
S07 = Black Nickel																			
S08 = Nickel-PTFE																			
S09 = Stainless Steel, Passivated																			
S10 = Zinc Nickel																			
Lead Length (Style 6 and 8 Only)																			
Blank = 0.109																			
Other Lengths = 0.140 & 0.172																			
(Consult Factory for Additional Lengths)																			
Board Thickness (Style 4 Only)																			
Blank = .010																			
Other Panel Thicknesses 0.030 & 0.054																			
(Consult Factory for Additional Thicknesses)																			
Lead Plating																			
1 = Tin/Lead (minimum 3% Lead) plated (Not RoHS Compliant) (Not Available with high temp (HT) connectors)																			
2 = Gold Plated (RoHS Compliant)																			