

Vertical Dual Row Surface Mount Metal Shell Low Profile Male Only (Style 36) Connector

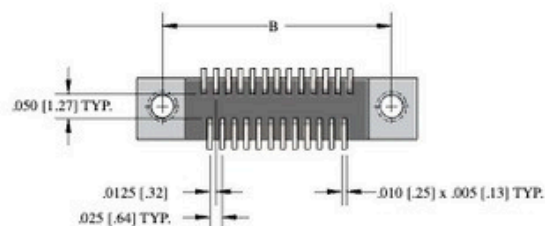
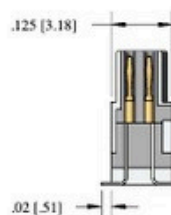
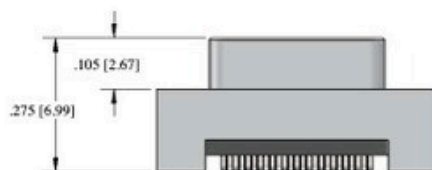
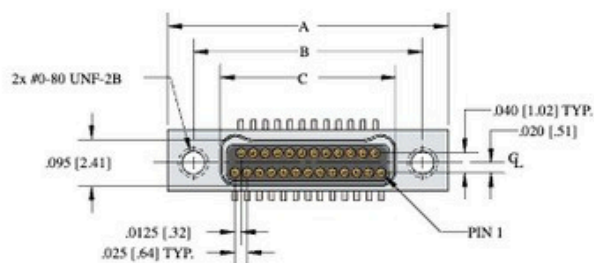
Winchester Interconnect Micro offers PCB Vertical Dual Row Surface Mount Metal Shell Low Profile Male Only (Style 36) Connectors, engineered for compact, high-reliability PCB applications. Featuring a .025 x .075 (Style 36) configuration with a 1-piece contact and rectangular flat tail, these connectors deliver superior soldering results with no lead deformation. Built to perform in extreme conditions, they operate from -55°C to 125°C , with high-temperature versions available up to 200°C (add HT). Available in 9 to 65 contacts, they combine durability, precision, and performance in one compact design.



KEY FEATURES & BENEFITS

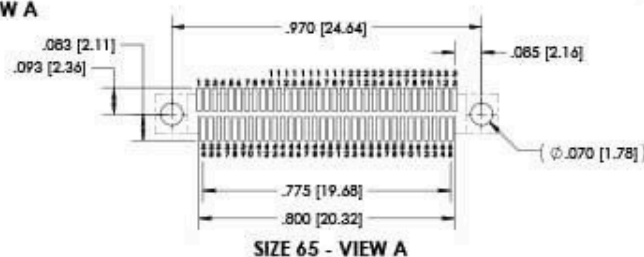
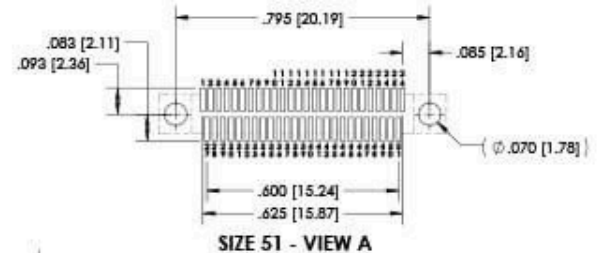
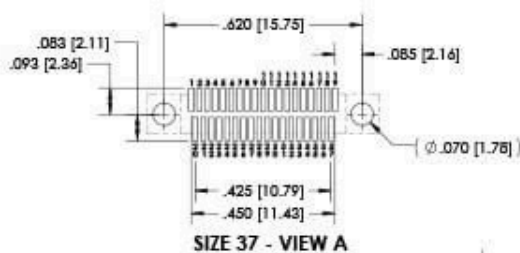
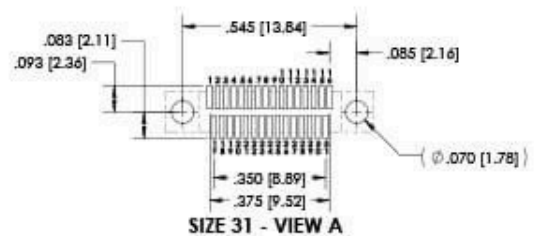
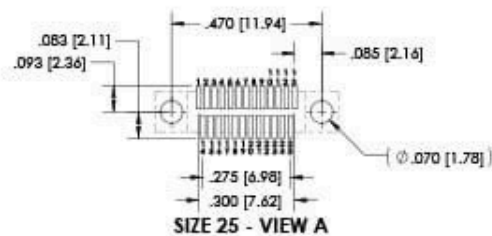
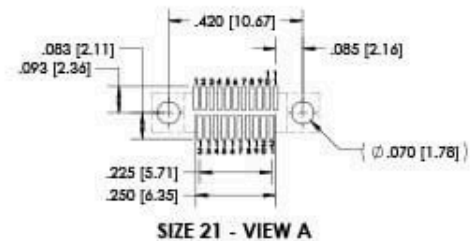
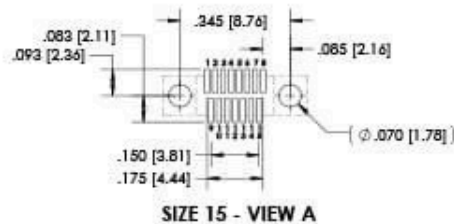
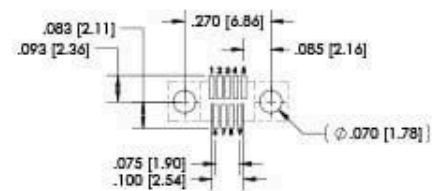
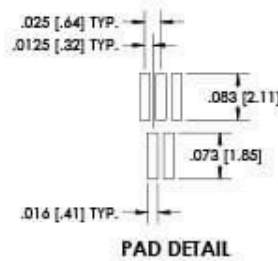
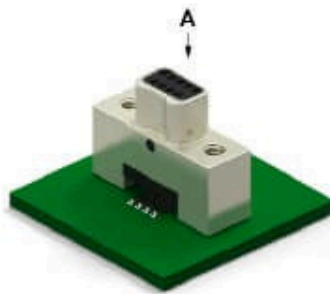
- Low-Profile Metal Shell Design – Ideal for compact and space-limited PCB layouts.
- Rectangular Flat Tail Termination – Ensures clean solder joints and prevents lead deformation.
- Wide Temperature Range – Operates from -55°C to 125°C ; HT versions extend to 200°C .
- Reliable Mechanical Performance –
- Engaging Force: 5 oz max
- Separation Force: 0.4 oz min
- Mating/Unmating Force: 7 oz × number of contacts max
- Vibration: EIA-364-28 Condition IV, 1 μs max discontinuity
- Shock: EIA-364-27 Condition G, 1 μs max discontinuity
- Available in 9–65 Contacts – Supports a variety of interconnect configurations.
- Perfect for High-Density PCB Applications – Provides precision connectivity for aerospace, defense, and instrumentation systems.

DIMENSIONAL



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]

PCB – MALE



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
Salt Spray	EIA 364-26 Condition B-48 hours

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	LCP(Liquid Crystal Polymer) GLCP-30F or PPS per MIL-M-24519 GST-40F
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 Surface Mount Metal Shell Low Profile Male Only (Style 36)

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)																			
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)																			