

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

Winchester Interconnect Micro offers Nano PCB Vertical Dual Row Plated Thru Hole Metal Shell (Style 6) Connectors, engineered for dependable performance and long-term reliability. Featuring a metal shell with surface mount .050 x .050 configuration, these connectors include a 1-piece contact with flat tail termination for secure soldering and mechanical strength. Operating efficiently from -55°C to 125°C, with high-temperature versions available up to 200°C (add HT), they are ideal for demanding environments.

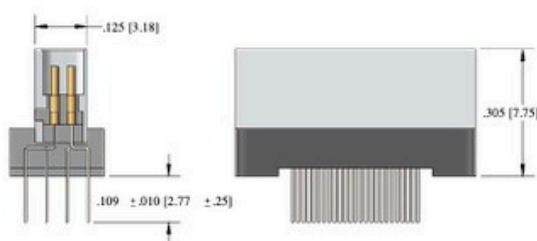
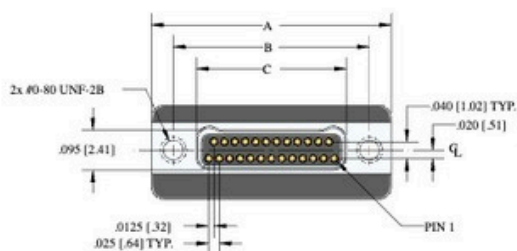
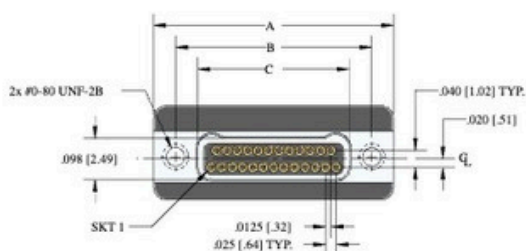


KEY FEATURES & BENEFITS

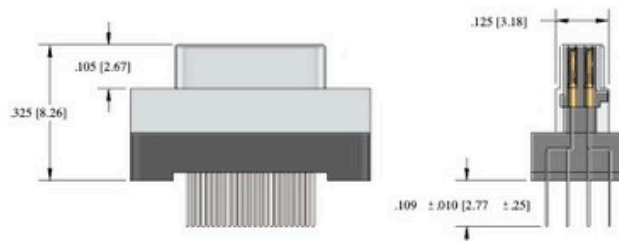
- Rugged Metal Shell Design – Ensures durability and reliable EMI protection.
- 1-Piece Contact Construction – Provides consistent electrical performance and secure termination.
- Wide Temperature Range – Operates from -55°C to 125°C; HT versions up to 200°C.
- Excellent Mechanical Strength – 5 oz max engaging force, 0.4 oz min separation force, and 7 oz × # of contacts mating/unmating force.
- High Shock and Vibration Resistance – Tested per EIA-364-28 (vibration) and EIA-364-27 (shock), 1 µs max discontinuity.
- Flexible Configurations – Available with 9 to 65 contacts.
- Qualified Performance – QPL approved for MIL-DTL-32139 compliance.
- Ideal for High-Reliability PCB Applications – Perfect for aerospace, defense, and instrumentation systems.

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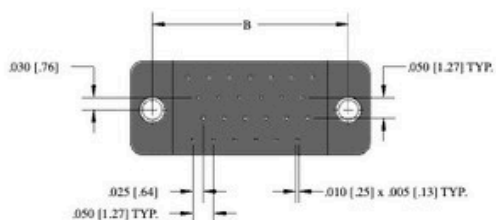
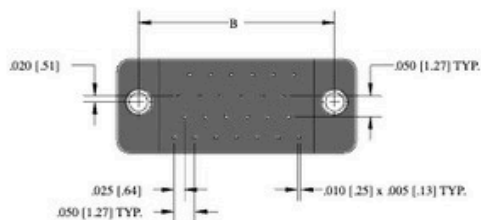
DIMENSIONAL



RECEPTACLE (SOCKETS)



PLUG (PINS)



Size	A	B	C		D
			Receptacle	Plug	
.375 [9.52]	.270 [6.86]	.160 [4.06]	.163 [4.14]	.175 [4.44]	.218 [5.54]
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]

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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

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MATERIALS

Materials and Finishes	
Signal Pin Contacts	C17410 Beryllium Copper per ASTM B768
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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

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