

Shielded Miniature Circular DIN Receptacles, Thru-Hole (Continued)

6-Position over 6-Position Stacked Receptacles

Material and Finish

Housing — Thermoplastic, 94V-0 rated, black or grey

Contacts — Copper alloy, duplex plated as follows:

A — .000030 [0.00076] gold min. in mating area, .000120 [0.00305] min. tin-lead on solder-tail, all over .000050 [0.00127] min. nickel underplating

Shield — Copper alloy, plated .000100 [0.00254] min. tin-lead over .000030 [0.00076] min. nickel

Notes:

1. Recommended pc board thickness is .062 [1.57].

Technical Documents

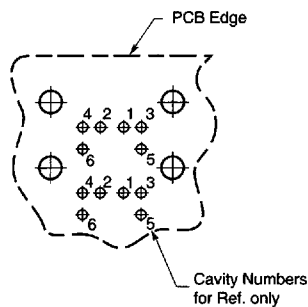
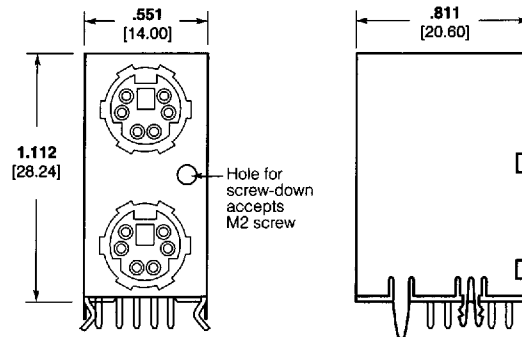
Product Specification

108-51010

Application Specification

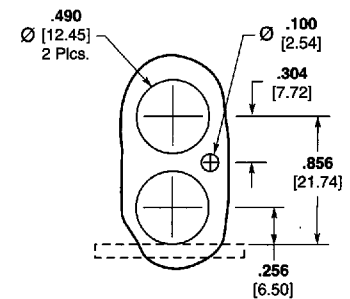
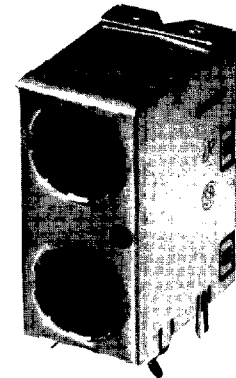
114-51004

△ See application specification 114-51004 for layout dimensions.

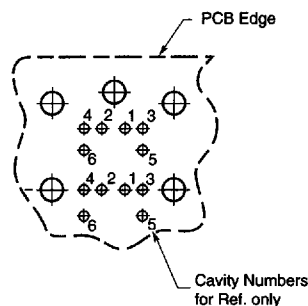
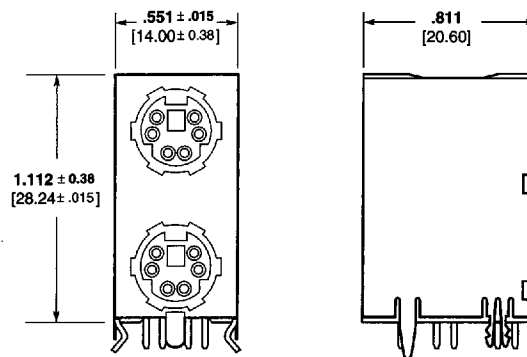


PCB Layout
Bottom View △

Part No. 84401-1

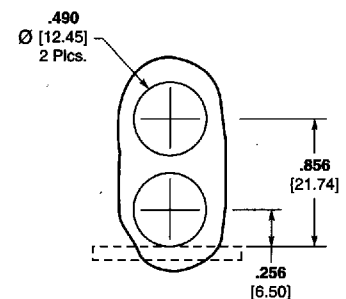
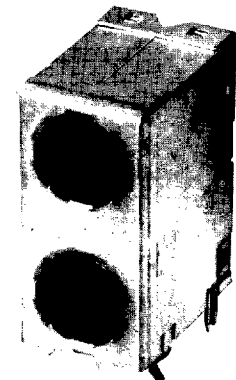


Recommended Panel Cutout



PCB Layout △
Bottom View

Part No. 84376-1*



Recommended Panel Cutout

*Also available in low temperature version; contact AMP Incorporated.

Shielded Miniature Circular DIN Receptacles, Thru-Hole

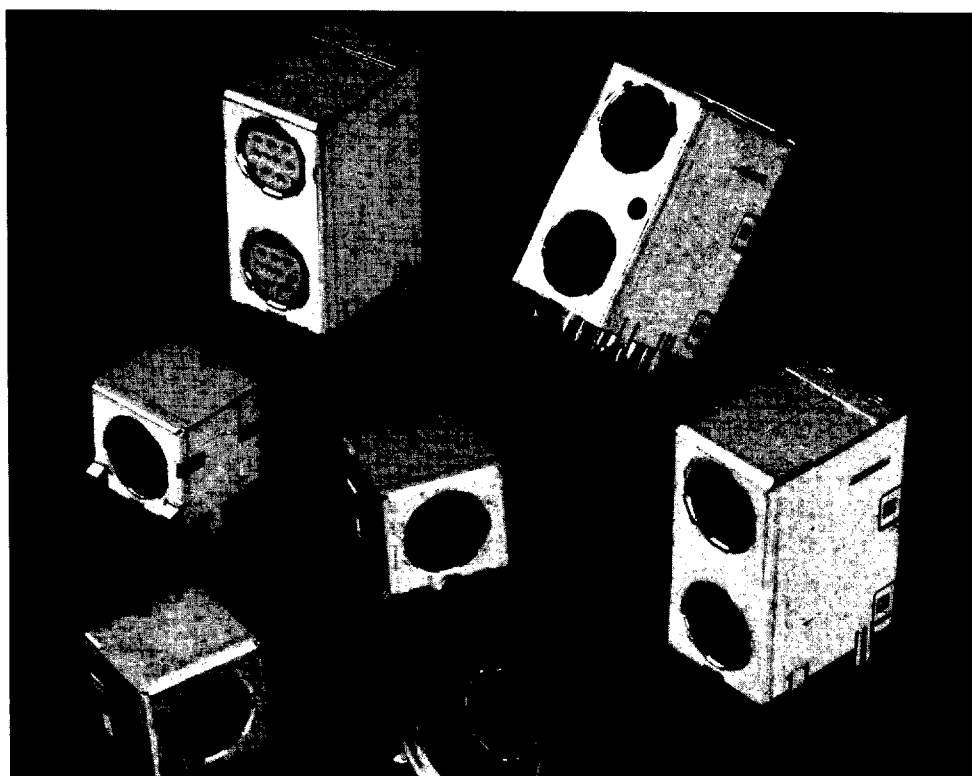
Product Facts

- Compact size, same envelope dimension for all sizes — 3 through 9
- Available in 6 and 9-positions stacked configurations
- Stacked visual keying available
- Right-angle and vertical receptacles incorporate one-piece shield for excellent shielding effectiveness
- Polarized and keyed to prevent mismatching
- Housings made of 94V-0 rated thermoplastic, IR reflow compatible
- Right-angle receptacles compatible with robotic pick-and-place assembly
- Receptacles with fully formed socket contacts with proven retention system
- Receptacles accept plug connectors with or without latches

Commercial Approvals

- Recognized under the Component Program of the Underwriters Laboratories Inc., File No. E28476 
- Certified by Canadian Standards Association File No. LR 7189 
- Produced under a Quality Management System certified to ISO 9001 

A copy of the certificate is available upon request.



Shielded Miniature Circular DIN printed circuit board receptacles are ideal I/O connectors where board real estate is at a premium. All connectors are available in three through eight positions plus right-angle connectors are available in a nine position configuration. Stacked connectors are available in six and nine position configurations.

Miniature Circular DIN, pcb thru-hole receptacles are available in a choice of right-angle or vertical mount designs.

Right-angle receptacles are designed for automated assembly. They incorporate registration notch controlled datum surfaces and contact locations needed for robotic pick-up and placement. The housings, made of 94V-0 rated material, are designed to withstand the rigors of

IR reflow soldering. The right-angle design incorporates a one-piece copper alloy shield and features optional front panel grounding fingers which ensure direct grounding.

Super VHS Shields are available — contact AMP Incorporated.

Thru-hole contacts are tin-lead plated for easy soldering, while the receptacle's stand-off design prevents shield damage to the pc board traces, and enhances cleaning after soldering.

Vertical mount receptacles are offered in unshielded and two shielded configurations — with or without front panel screw-down.

Performance Specifications

Voltage Rating — 30 VAC rms, or 30 VDC

Current Rating — 1 ampere, max.

Dielectric Withstanding Voltage — 500 VAC rms

Termination Resistance — 30 milliohms, max.

Mating Force — 9 lbs [40 N], max.

Unmating Force — 2 lbs [8.9 N], min.

Durability — 100 mating cycles for gold flash plating
250 mating cycles for .000015 [0.00038] gold plating
500 mating cycles for .000030 [0.00076] gold plating

Application Temperature — Max. 255°C for 4 min.

Operating Temperature Range — -55°C to +105°C