



Multi-Directional Interconnection (MDI) System

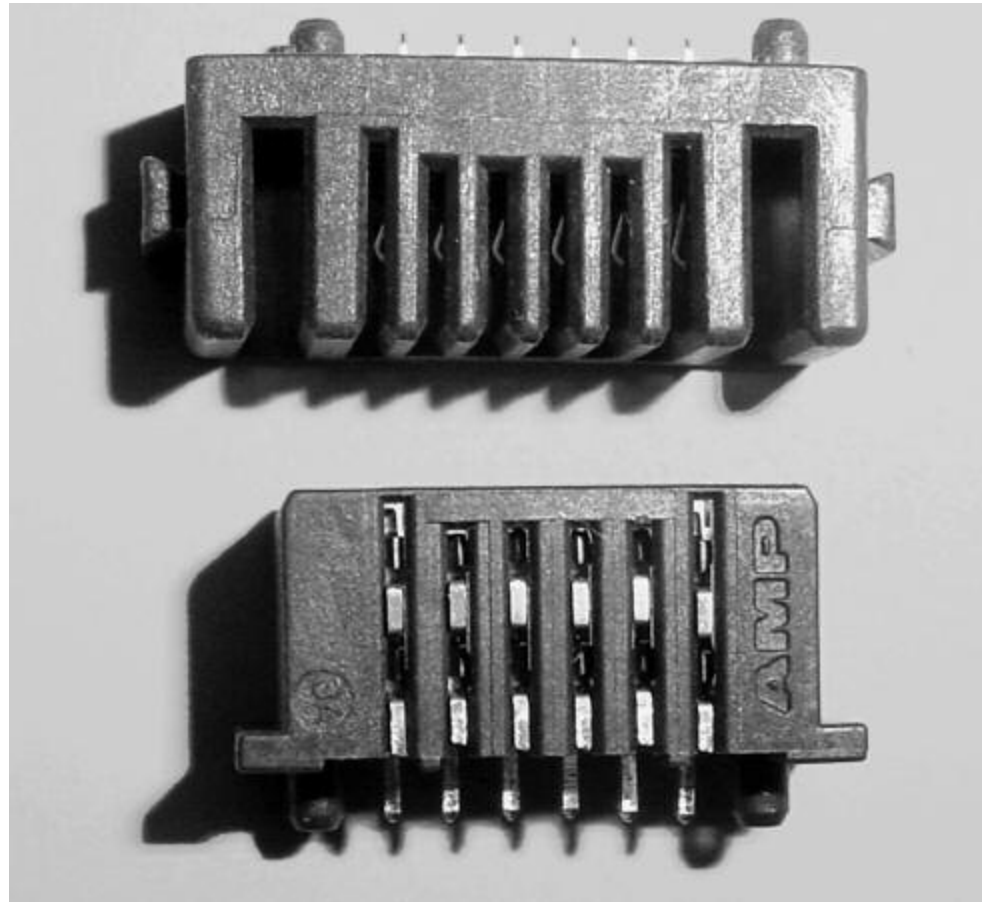
Product Facts

- 6-position, 2mm interface shrouded on both sides
- Offers blind mating from 0 to 90 mating angle
- Solder tail and SMT pcb termination
- 6-position receptacle and header interconnection on 2.0mm
- Ideal for high density application
- Connectors can be mated at any angle between 0° and 90°
- Durable — 2500 cycles, contacts with 0.00076 min. AMP-DURAGOLD plating over 0.00127 min. nickel underplating
- High reliability for docking applications — portable hand held devices, measurement equipment, documentation control and interconnections for rechargeable batteries for lap-top and notebook computers
- 0.00380 min. tin on solder tails
- Versatile solder operation for board-to-board applications
- Produced under a Quality Management System certified to ISO 9001
A copy of the certificate is available upon request.
- Recognized under the Component Program of Underwriters Laboratories, Inc.  File No. E28476
- Certified Pending by Canadian Standards Association,  File No. LR 16455

Technical Documents

Product Specifications

108-1503
108-1503-1



The rapid growth of the portable equipment market has fostered a need for a high density and versatile interconnection system. Tyco Electronics Multi-Directional Interconnection System answers this need. The system consists of 6-position receptacles and headers featuring contacts on 2.0mm centerlines. This multi-directional interconnection system is designed to permit mating/unmating at any angle between 0° and 90°. This durable system features AMP-DURAGOLD plated contacts for positive mating/unmating up to 2500 cycles.

Housings are made of UL 94V-0 rated, high temperature thermoplastic, compatible with IR and reflow solder techniques.

The multi-directional aspect and durability of this system make it ideal for docking connector applications in a variety of portable hand held devices, measurement equipment, documentation control, and interconnections for rechargeable batteries used in laptop and notebook type computers.

Tyco Electronics Multi-Directional Interconnection System is your total interface problem solver. It reduces your design cycle time, time-to-market, and provides an overall reduced cost of manufacturing.

Multi-Directional Interconnection (MDI) System (Continued)

Multi-Directional Headers

**6-Position Header,
with Below the Board
Retention Tails**

Part Number 5787252-1

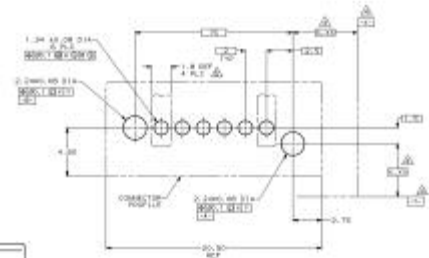
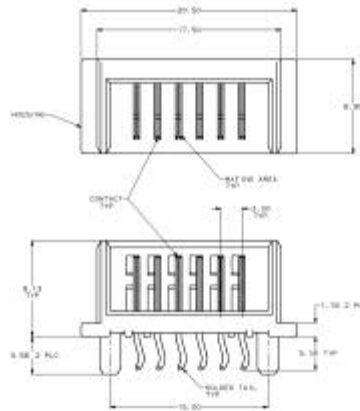
Material and Finish

Housing — LCP, 94V-0 rated, black

Contacts — Brass, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

Notes:

1. Datum and dimensions established by customer.
2. Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.



PC Board Mounting Dimensions

**6 Position Header
Assembly with
Straight Solder Tails**

Part Number 5787531-1

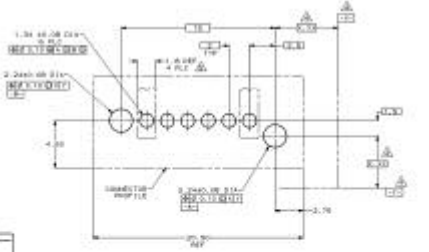
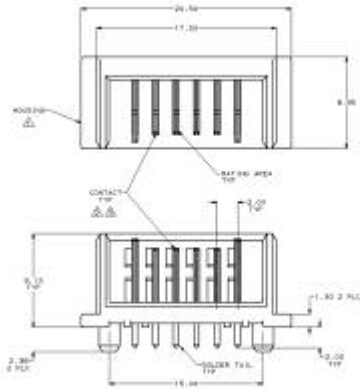
Material and Finish

Housing — LCP, 94V-0 rated, black

Contacts — Brass, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

Notes:

1. Datum and dimensions established by customer.
2. Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.



PC Board Mounting Dimensions

Note: All part numbers are RoHS compliant.

Multi-Directional Interconnection (MDI) System (Continued)

Multi-Directional Receptacles

6-Position Receptacle Assembly with Straight Solder Tails

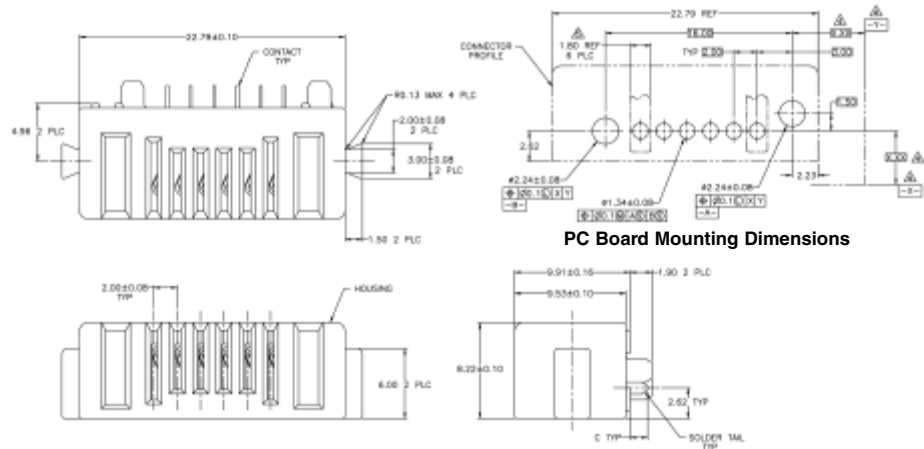
Part Number 5787253-1

Material and Finish

Housing — LCP, 94V-0 rated, black
Contacts — Phosphor bronze, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

Notes:

1. Datum and dimensions established by customer.
2. Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.



PC Board Mounting Dimensions

6-Position Receptacle Assembly with Surface Mount Tails

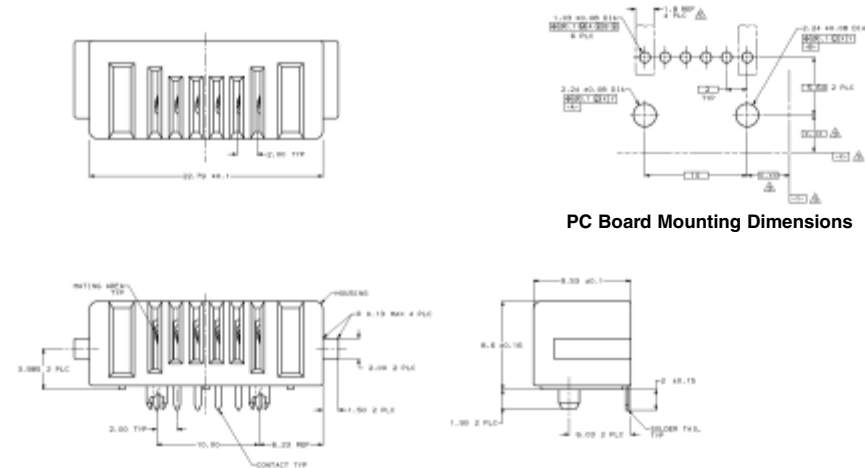
Part Number 5787526-1

Material and Finish

Housing — LCP, 94V-0 rated, black
Contacts — Phosphor bronze, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

Notes:

1. Datum and dimensions established by customer.
2. Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.
3. Recommended PC Board thickness of 1.57.



PC Board Mounting Dimensions

Note: All part numbers are RoHS compliant.