



Introducing 0.5mm Fine Pitch Hermaphroditic (FPH) Board-to-Board Connector

The 0.5mm FPH board-to-board product is a hermaphroditic "mate-to-itself" interconnect system. By having a design that only requires one part number, the customer can eliminate the need for both a plug and receptacle for board-to-board applications eliminating half the part numbers.

KEY FEATURES

- Hermaphroditic design (mates to itself)
- Easy, reliable mating
- High un-mating forces
- Extreme operating temperature range
- High speeds

APPLICATIONS

- Hard disk drive
- Portable and mobile electronic equipment
- Instrumentation
- POS retail equipment
- Hand-held terminals
- Sensors
- Military or aerospace applications
- Communications and networking
- Data and mass storage
- Motor vehicles
- Metering and energy
- Identification and data capture

MECHANICAL

- Durability: 50 mating cycles in environment
- Mating Force: 42g max per contact pair
- Un-mating Force: 25g min per contact pair
- Wipe length: 1.0mm minimum
- SMT lead co-planarity: 0.08mm maximum

ELECTRICAL

- Current rating per contact: 0.5A maximum
- Dielectric withstanding voltage: 500 volts
- Voltage rating: 50 volts
- Contact resistance: 30 milliohm maximum

MATERIALS

- Housing: Liquid Crystal Polymer, UL 94-VO classified, Color: White (natural)
- Contacts: Copper Alloy
- Plating: Performance-based with gold
- All materials lead-free RoHS compatible

PRODUCT OFFERING

- 2199070-4, 1-2199070-4

PRODUCT DIMENSIONS

- Without post: W 8.75mm x L 5.7±0.2mm x H 3.9mm
- With post: W 8.75mm x L 5.7±0.2mm x H 4.42mm

