



O.5MM FINE PITCH HERMAPHRODITIC (FPH) BOARD-TOBOARD CONNECTORS

HERMAPHRODITIC DESIGN SIMPLIFIES INVENTORY MANAGEMENT

TE Connectivity's (TE) 0.5mm fine pitch board-to-board connectors feature a hermaphroditic design that mates to itself, reducing inventory product mix with consolidated part numbers and components. This also helps save the customer time and costs associated with qualifying new parts for a design – instead of a header part and receptacle part for each connection, there is only one part number.

Key Features and Benefits

- · Simplify inventory
 - · Hermaphroditic "mates-to-itself" design
 - Save time and cost associated with qualifying new parts
- · Dependable performance
 - Perform reliably in demanding environments
 - Stub-less contact interface supports PCIe Gen 3 compatibility
 - Up to 8 Gbps data rates
 - Housing available in UL 94V-0 flammability-rated LCP material
- · Reliable connections
 - Dual point contact design for better precision
 - · Four guidance posts ensure easy mating

Applications

- Point-of-Sale (POS) Devices
- Retail equipment
- Networking
- · Data and mass storage
- Instrumentation
- · Industrial controls
- · Medical equipment
- · Military equipment
- Automotive

Mechanical

• Durability: 50 mating cycles

Mating force: 68g max per contact pairUn-mating force: 10g min per contact pair

Wipe length: 1.0mm minimumSMT lead co-planarity: 0.08mm maximum

Electrical

Current rating per contact:
 O.5A DC maximum

Dielectric withstanding voltage: 500 VoltsVoltage rating: 30 Volts

Contact resistance: 30 milliohm maximum
 Operating temperature: -40°C to 125°C

Materials

Housing: Liquid Crystal Polymer, UL 94-V0 classified, Color: Natural/Black

Contacts: Copper alloy

Plating: Performance-based with gold
All materials lead-free RoHS compatible

Product Offering

TE Part Number	# of Positions	With Boss	Color
2199070-4	24	No	Natural
1-2199070-4	24	Yes	Natural