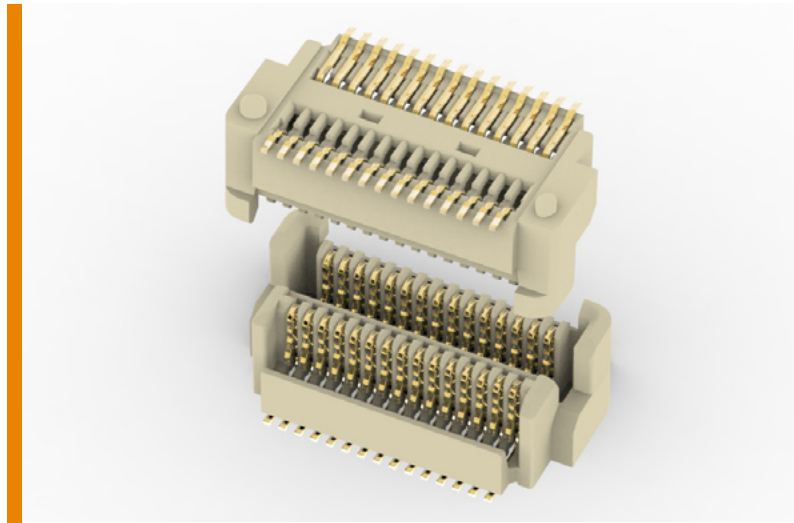


## INTRODUCING

# 0.5MM FINE PITCH HERMAPHRODITIC CONNECTORS

- Simplify inventory management with “mate-to-itself” hermaphroditic design
- Perform reliably in demanding environments



Our new 0.5mm fine pitch board-to-board connectors feature a hermaphroditic, “mate-to-itself” design to help simplify inventory management and lower costs. This efficiency helps reduce inventory and can also save time and cost associated with qualifying new parts for a design. These connectors are reliable for use in demanding applications with features including dual point contacts, guidance posts and a high operating temperature.

## BENEFITS

- Reduce inventory product mix with a hermaphroditic design that consolidates part numbers and components
- Help save time and cost associated with qualifying new parts – instead of a header part and a receptacle part for each connection, there is only one part number
- Perform reliably in demanding applications with an operating temperature of -40°C to +125°C, making them suitable for use in applications such as industrial controls, military and motor vehicles
- Support PCIe Gen 3 compatibility at up to 8 Gbps data rates with a stub-less contact interface
- Withstand harsh environments with optional UL94V-0 flammability-rated LCP material
- Provide better precision and reliability with a dual point contact design (versus single point)
- Help ensure easy mating with four guidance posts

## MATERIALS

- Housing: liquid crystal polymer, UL 94-V0 classified, color: natural/black
- Contacts: copper alloy
- Plating: performance-based with gold

## ELECTRICAL

- Current rating per contact: 0.50A DC max.
- Dielectric withstanding voltage: 500V
- Voltage rating: 50V
- Contact resistance: 30 milliohm max.

## MECHANICAL

- Operating temperature: -40°C to 125°C
- Durability: 50 mating cycles
- Mating force: 68g max per contact pair
- Un-mating force: 10g min per contact pair
- Wipe length: 1.0mm minimum
- SMT lead co-planarity: 0.08mm maximum

## APPLICATIONS

- Point-of-Sale (POS) devices
- Retail equipment
- Networking
- Data and mass storage
- Instrumentation
- Industrial controls

## LEARN MORE

[0.5mm fine Pitch Hermaphroditic Landing Page](#)  
[Product Flyer \(English\)](#)

[Product Flyer \(Simplified Chinese\)](#)

[0.5mm fine Pitch Hermaphroditic Part List](#)