

MEZZOSTAK® 0.50mm Pitch 5.2mm Stacked Height

HERMAPHRODITIC CONNECTORS “MATES-TO-ITSELF” DESIGN

Mezzostak® 0.50mm is a robust fine-pitch mezzanine connector suitable for a wide range of high-reliability applications and demanding environments. The innovative hermaphroditic design of these connectors provides a precise mating interface with extra housing guidance.

As it comes with reduced product mix, it simplifies customer connector qualification, documentation, and maintenance. Mezzostak® 0.50mm mezzanine connectors are available in 120 positions with other position options provided on request.

- Vertical mating configuration for board stacking applications



TARGET MARKETS



FEATURES

- Hermaphroditic ‘mates-to-itself’ design
- Guidance ‘scoops’ on housing
- Polarized housing
- Option for PCB locator pegs
- High un-mating force
- Support PCIe® Gen 2 and SAS 3.0 SI performance

BENEFITS

- Consolidates connector selection and documentation; reduces component engineering costs
- Permits easy-mating when misaligned
- Prevents mismating
- Easy and accurate manual assembly
- Ensures secure connection
- Application flexibility and adherence to industry standards

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TECHNICAL INFORMATION

MATERIAL

- Housing: LCP UL94V-0
- Color: Black
- Contacts: Copper alloy
- Plating: Performance-based with gold
- All materials lead-free RoHS compatible per GS-22-008

ELECTRICAL PERFORMANCE

- Current Rating Per Contact: 0.50A (de-rated)
- DWV: 500V
- Voltage Rating: 50V
- Contact Resistance: 30mΩ max.
- Signal Integrity
- Meets SAS 3.0 SI Specification
- Meets PCIe® Gen 2 SI specification

MECHANICAL PERFORMANCE

- Durability: 50 mating cycles
- Mating Force: 42g max. per contact pair
- Un-mating Force: 25g min. per contact pair
- Wipe Length: 1.0mm min.
- SMT Lead Co-planarity: 0.08mm max.

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C
- Processing Temperature: 260°C peak for 30S

SPECIFICATIONS

- Packaging Specification: GS-14-1320 S2
- Drawing Number: 10152318

PACKAGING

- Tape and Reel, pickup cap pre-installed

TARGET MARKETS/APPLICATIONS



Motor Vehicle



Portable and Mobile Electronic Equipment
Point of Sale (PoS)
Sensors



Hand Held Terminals
Automatic Identification and Data Capture
Communications and networking
Data Storage (SSD and HDD)



Instrumentation
Metering and energy



Medical

PART NUMBERS

Number of positions	Mated Height	Part Numbers
120	5.2mm	10152318-001LF

SS10MEZZSTAK050099EA4