

0.40mm Fine Pitch Floating Board-to-Board

HIGH SPEED FINE PITCH FLOATING BOARD-TO-BOARD CONNECTORS

This fine pitch 0.40mm 4mm stacked height 80pos floating board-to-board connectors are suitable for a wide range of high reliability applications and demanding environments. Its unique connector design gives a floating range of $\pm 0.20\text{mm}$ in X and Y directions. With data rates up to 6Gb/s these connectors meet high transmission requirements. These connectors are highly durable with the capacity to withstand up to 50 mating cycles.

- The floating design tolerates misalignment during mating process
- Meets high transmission requirement with data rates up to 6Gb/s
- High durability with 50 mating cycles
- High unmating force ensures secure connection
- The normal wipe length allows contact reliability during mating process

FEATURES

- Floating range of $\pm 0.20\text{mm}$ in the X and Y direction
- Optimized housing and terminal profile for SI performance
- Withstands up to 50 mating cycles
- The terminal geometric design provide normal wipe length at $0.45 \pm 0.10\text{mm}$
- High unmating force
- RoHS compliant and lead-free



TARGET MARKETS



BENEFITS

- Tolerates misalignment during mating process
- The mating pair supports speed performance up to 6Gb/s to meet high transmission requirement
- High durability
- Improves contact reliability during mating
- Ensures secure connection
- Meets environmental, health and safety requirements

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TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Natural color
- Contact: Copper Alloy
- Plating: 8u" Au plating on mating area

ELECTRICAL PERFORMANCE

- Current Rating: 0.3A per contact
- Voltage Rating: 100V AC
- Low Level Contact Resistance: Initial at 30mΩ Max and after test at 50mΩ Max
- Insulation Resistance: 500MΩ Min
- Dielectric Withstanding Voltage: No short or breakdown after 150 VAC, 0.5mA and 1 minutes

MECHANICAL PERFORMANCE

- Mating Force: 1.47N maximum per contact
- Un-mating Force: 0.1N Minimum per contact
- Contact Retention Force: 0.98N Min per contact
- Durability: 50 mating cycles

SPECIFICATIONS

- Product specification: GS-12-1489
- Regulatory information for Engineering document: GS-47-0004

PACKAGING

- Tape and Reel packaging

ENVIRONMENTAL

- Operating Temperature Range: -55°C to 125°C
- Resistance to Solder Heat: Peak temperature at 260 +/- 5°C for 60 seconds duration

APPROVALS & CERTIFICATION

- Rohs compliant
- UL file number E66906

TARGET MARKETS/APPLICATIONS



Storage Server



Data



Consumer

PART NUMBERS

| Description | Part Numbers |
|---|--------------------|
| 80pos 0.40mm 4mm SH Floating BtB Receptacle | 10161487-001TRLF |
| 80pos 0.40mm 4mm SH Floating BtB Plug | 10161488-001C-TRLF |