

BergStak® 0.50mm Self-Alignment Board-to-Board Connector

FINE PITCH SOLUTION WITH SELF-ALIGNMENT FEATURE

The BergStak® 0.50mm self-alignment connectors come with a stack height of 3mm and 50 positions extendable across 20 to 60 positions in increments of 10. It has a unique self-alignment feature that supports blind mating.

- 0.50mm pitch
- Self-alignment feature
- Housing with drainage feature



TARGET MARKETS



FEATURES

- 0.50mm double row contact
- 20 to 60 positions in increments of 10
- Self-alignment feature
- Housing with drainage feature
- Scoop-proof housings
- Supports speed performance up to 5Gb/s
- RoHS compliant, halogen and lead free

BENEFITS

- High density connector
- Application flexibility
- Supports blind mating
- Can be exposed to wash process after installation
- Ensures terminals are not damaged during mating
- Meets PCIe® Gen 2 standards
- Meets health, safety and environment requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature thermoplastic UL94V-0, LCP, black
- Terminal: Copper alloy
- Plating: Gold flash
- Meet European Union Directives

ELECTRICAL PERFORMANCE

- Current Rating: 0.5A per contact
- Insulation Resistance: 500MΩ min.
- Voltage Rating: 100V AC
- LLCR:
 - Initial: -30mΩ max.
 - After test: -50mΩ max.

MECHANICAL PERFORMANCE

- Mating Force: 0.8N per pin max.
- Unmating Force: 0.15N per pin min.
- Retention Force: 0.98N per pin min.
- Durability: 50 mating cycles

ENVIRONMENTAL

- Thermal Shock: -40°C to +125°C
- High Temperature: 85±2°C for 96 hours
- Salt Spray Test: 5±1% salt concentration 48±4 hours 35±2°C
- The Housing can withstand exposure to 260°C for 40 seconds

SPECIFICATIONS

- Product Specification: GS-12-1298

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Communications



Data



Industrial & Instrumentation

PART NUMBERS

Description	Part Numbers
BergStak® 0.50mm Self-Alignment BTB Conn, Vertical Receptacle, 50 Positions	10156000-051100LF
BergStak® 0.50mm Self-Alignment BTB Conn, Vertical Header, 50 Positions	10156001-051100LF