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

FINE PITCH SOLUTION WITH SELF-ALIGNMENT FEATURE

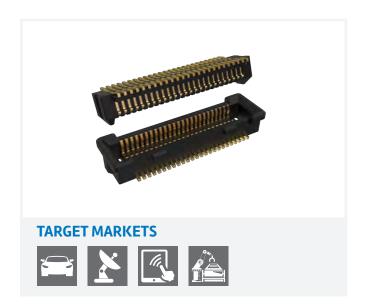
The BergStak® 0.50mm self-alignment connectors come with a unique self-alignment feature that allows customers to use in the applications which needs blind mating. It can support ±0.85mm in pitch direction and ±1.29mm in width direction.

The 0.50mm fine pitch design supports high signal density applications where space is a constraint.

Scoop-proof housings ensure terminals are not damaged during mating and thus can minimize the contact damage with improving the manufacturing quality.

BergStak® 0.50mm self-alignment connector currently has a stack height of 3mm on 50 positions, and positions are extendable from 20 to 60 upon request.

- 0.50mm fine pitch
- Self- alligment feature supporting blind mating
- Suitable for parallel board stacker applications
- Scoop-proof feature



FEATURES

- Self-alignment feature
- 50 positions available, extendable from 20 to 60 positions in increments of 10
- Scoop-proof housings
- 0.50mm double row contacts
- Vertical mating configuration
- UL94V-0 high temperature LCP material
- RoHS compliant, halogen and lead free

BENEFITS

- Supports blind mating and automatic assembly cost effectively
- Application flexibility
- Prevents terminal mating damage
- High density connector, suitable for applications with space constraints
- Suitable for parallel board stacker applications
- High flammability rating
- Meets health, safety and environment requirements

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TECHNICAL INFORMATION

MATERIAL

 Housing: High temperature thermoplastic LCP, black (UL94V-0)

• Terminal base material

Receptacles: Copper alloy

• Headers: Copper alloy

ELECTRICAL PERFORMANCE

• Current Rating: 0.5A per contact

■ Voltage Rating: 100V AC

• LLCR:

• Initial: $30m\Omega$ max.

 \bullet After test: $50m\Omega$ max.

• Insulation Resistance: 1000M Ω min.

Support speed PCIe Gen1 with 2.5Gb/s

MECHANICAL PERFORMANCE

■ Durability: 50 cycles.

• Mating Force: 0.8N max. per contact

• Un-mating Force: 0.15N min. per contact

Contact Retention Force: 1N min. per contact

- ENVIRONMENTAL

■ Operating temperature Range: -40°C ~ 125°C

■ Salt Spray Test: 5±1% salt concentration 48±4 hours 35±2°C

SPECIFICATIONS

■ Product Specification: GS-12-1298

PACKAGING

■ Tape & Reel

TARGET MARKETS/APPLICATIONS



Automotive Camera



5G AAU



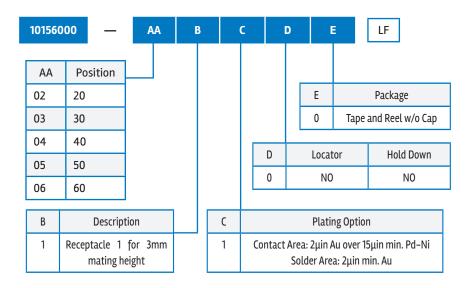
Home Automation IoT Devices



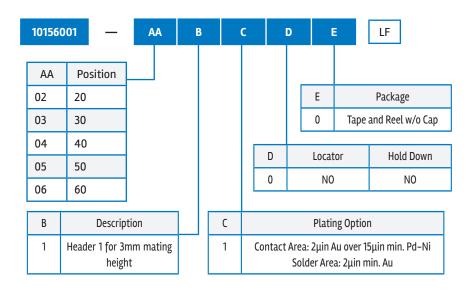
Factory Automation Camera Embedded Computer

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PART NUMBER SELECTOR - RECEPTACLE



PART NUMBER SELECTOR - HEADER



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 |

Remark: More options can be extended according to the market needs

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