

# BergStak® 0.40mm Floating Board-to-Board Connector

## 3-AXIS FLOATING FEATURE, SHIELDED DESIGN

BergStak® 0.40mm is a floating type Board-to-Board (BTB) connector with 32 pin count and stack height of 5mm. This solution comes with an all-round shield for superior EMI performance. Its unique connector design has a floating range of  $\pm 0.40\text{mm}$  in the X, Y and Z directions. BergStak® 0.40 ideal for automotive applications, especially cameras mounted on vehicles.

- Fine pitch design at 0.40mm
- Supports speed performance up to 3Gb/s
- Floating range of  $\pm 0.40\text{mm}$  in the X, Y and Z directions
- Shielded design for superior EMI performance
- Polarized key for Poka-Yoke mating



### FEATURES

- Floating range of  $\pm 0.40\text{mm}$  in the X, Y and Z directions
- Shielded design
- Supports speed performance up to 3Gb/s
- Fine pitch design at 0.40mm
- Poka yoke polarization
- Spring-loaded shielded design
- Wide operating temperature from  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

### BENEFITS

- Improves contact reliability
- Minimizes misalignments in mating and vibrations
- Enables superior EMI performance
- Meets V-by-One HS standard
- Suitable for applications with space constraints
- Visual mismatching prevention system
- Ensures positive shielding even connector is floating
- High vibration and locking resistance
- Suitable for automotive and industrial applications



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Zertifiziert nach ISO 9001:2015

## TECHNICAL INFORMATION

### MATERIAL

- Housing: LCP
- Contact: Copper Alloy
- Shielding Tab: Copper Alloy

### MECHANICAL PERFORMANCE

- Insertion Force: 0.8N max./pin
- Retention Force: 0.1N min./pin
- Durability: 10 mating cycles
- Vibration: EIA 364-28, Condition 1, No discontinuity at 1 usec or longer
- Shock: EIA 364-27, Condition A, No discontinuity at 1 usec or longer

### ELECTRICAL PERFORMANCE

- Current Rating: 0.4A
- Current Voltage: 50V AC
- Contact Resistance: 100mΩ max.
- Insulation Resistance: 50mΩ min. at 100V DC
- Dielectric Withstanding Voltage: 100V AC minimum for 1 minute

### ENVIRONMENTAL

- Humidity: EIA 364-31, Method II, 90~95%RH, +60°C, 240H
- Thermal Shock: EIA 364-32, Method A, Test Condition III, 50 cycles
- Low temperature life: EIA 364-59, Test Condition III, -40°C, 168H
- High temperature life: EIA 364-17, Method A, Test Condition 5&B, +125°C, 250H
- Salt spray: EIA 364-26, Test Condition B, +35°C, 5+/-1%, 48H

### PACKAGING

- Tape & Reel

### TARGET MARKETS/APPLICATIONS



Camera  
Infotainment  
Display Cluster



Robotics

## PART NUMBERS

Description	Part Numbers
BergStak® 0.40mm Floating BTB, Shielded, Receptacle	10144426-XX00EHLF
BergStak® 0.40mm Floating BTB, Shielded, Header	10144430-XX00EHLF



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#### Disclaimer

Please note that the above information is subject to change without notice.