



**THE DATASHEET OF
10147520-144-THLF**



BergStak® FX10 0.50mm Board-to-Board Connector

HIGH SPEED HIGH DENSITY MINIATURE CONNECTOR

The BergStak® product range is expanded to include 0.50mm BergStak® FX10 board-to-board connector known for its fast data transmission and high signal quality. This connector is offered in 144 positions and is available in 4.30mm and 6.00mm stack height options. Product position is extendable up to 168 positions.

BergStak® FX10 supports speed performance up to 15Gb/s+ and is available in vertical SMT configuration. This high density connector saves space on PCB and is highly suitable for high-density applications in automotive, data, medical, communication and industrial markets.

- Licensed to Hirose FX10 series
- Data transmission speed up to 15Gb/s+
- Suitable for high density applications



TARGET MARKETS



FEATURES

- Authorized second source to Hirose FX10 series
- High speed performance up to 15Gb/s+
- Suitable for high-density applications
- OIF MSA-100GLH electrical interface
- Hold-down feature
- Halogen-free and RoHS compliant

BENEFITS

- Fully compatible with Hirose product offering
- Meets next generation high speed transmission requirements
- Saves space
- Standard connector for OIF
- Robust and steady design for customer application
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing:
 - Glass filled LCP (UL94V-0, MSL level 1)
 - High temperature thermoplastic
- Contact Base Metal:
 - Receptacles: Copper Alloy
 - Headers: Copper Alloy
- Plating:
 - Solder area finish in Gold flash tin over Nickel
 - Contact Area: Gold

MECHANICAL PERFORMANCE

- Durability: 100 cycles
- Mating and Un-mating Force: 86.4N max. and 11.5N min.

ELECTRICAL PERFORMANCE

- Current Rating: 0.4A per contact
- Contact Resistance: 60mΩ max.
- Voltage Resistance: 150VAC applied for 1 minute
- Signal Integrity:
 - Data Rate: Up to 15Gb/s+
 - Differential Impedance: 100Ω
 - Single Ended Impedance: 50Ω

SPECIFICATIONS

- Amphenol Product Specification: GS-12-1529

ENVIRONMENTAL

- Industrial Atmosphere: Duration 14days
- Vibration Sinusoidal: 10g
- Shock Halfsine: 50g

APPROVALS AND CERTIFICATIONS

- UL/CSA E66906

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Display Module Camera
Body Control



IP Phones
Datacom
Telecom
Router



Drone



Server
Storage



Measurement Equipment
POS Equipment
Portable Industrial Terminal
Security Systems
Test Equipment
Embedded Computer

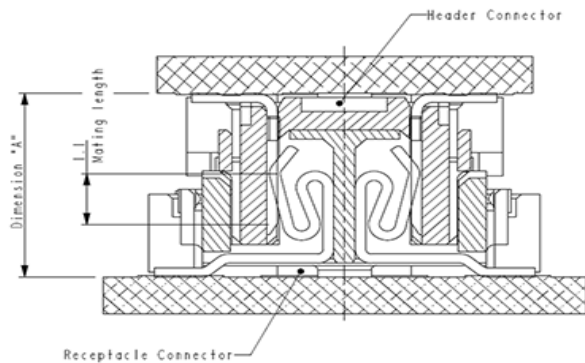


Laser System

▶ BergStak® FX10 0.50mm Board-to-Board Connector

Stack Height Dimension "A"	Receptacle 1 10147523-XXX-1HLF
Header 1 10147520-XXX-SHLF	4.30mm
Header 2 10147520-XXX-THLF	6.00mm

XXX denotes the number of positions





PART NUMBERS

Description	Part Numbers
BergStak® FX10 0.50mm board-to-board header for 4.30mm stack height	10147520-144-SHLF
BergStak® FX10 0.50mm board-to-board header for 6.00mm stack height	10147520-144-THLF
BergStak® FX10 0.50mm board-to-board receptacle	10147523-144-1HLF

Looking for pricing, stock, or lifecycle information?

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-  [Amphenol FCI Information](#)

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