

BergStak® 0.80mm Shielded Board-to-Board Connector

RELIABLE, HIGH-SPEED SHIELDED CONNECTORS

BergStak® 0.80mm connector family is known for its fast data transmission, high signal quality, and time-proven reliability under extended periods of application.

Bergstak® shielded connector with 0.80mm pitch supports high-speed data applications up to 10Gb/s. These connectors feature a shielded design that provides superior EMC performance and significantly improved electromagnetic compatibility.

- Superior EMI protection
- Self-alignment features
- Open space for trace
- Free pin of use



TARGET MARKETS



FEATURES

- EMC shielding
- 64 positions , with 40–140 contact options
20mm stack height, with options from 9mm–20mm
- Supports data rate from 2.5Gb/s up to 10Gb/s
- Self-alignment feature
- Scoop-proof housings
- Available in UL94V-0 material
- Lead-free and RoHs compliant

BENEFITS

- Significantly reduced coupling inductance leading to excellent electromagnetic compatibility
- Application flexibility
- Meets PCIe® Gen 1 to Gen 3 and 10G Base KR specifications
- Prevents misalignment, delivers consistent reliability and high performance
- Prevents reverse mating
- High flammability rating
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Shell : Stainless steel
- Housing: LCP UL94-V0
- Receptacle Terminal: Nickel copper
- Plug Terminal: Brass
- Plating: – Solder area finish in matte pure tin over nickel
– Contact area PdNi+gold

ELECTRICAL PERFORMANCE

- Current Rating: 0.8A
- LLCR: Initial 30mΩ; After Test: 50mΩ
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 100VAC
- Signal Integrity for PCIe® Gen 1 to Gen 3 and 10G Base KR
- Data Rate: 2.5Gb/s up to 10Gb/s

MECHANICAL PERFORMANCE

- Durability: 100 cycles
- Mating Force: 0.9N max. per contact
- Un-mating Force: 0.1N min. per contact
- Contact Retention Force: 1N min. per contact

ENVIRONMENTAL

- Operating Temperature Range: -40°C to 125°C
- High Temperature Life: 125°C for 96 hours
- Humidity: 90-95% relative for 240 hours
- Mixed Flow Gas: Duration 7 days

SPECIFICATIONS

- GS-12-1599

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Communication



Server / Storage



Industrial & Instrumentation



Medical

PART NUMBERS

| Description | Part Numbers |
|---|-------------------|
| Bergstak® Shielded 0.80mm, Vertical Receptacle, SMT, 64 Positions | 10147212-644406LF |
| Bergstak® Shielded 0.80mm, Vertical Header, SMT, 64 Positions | 10147213-644406LF |

PART NUMBER SELECTOR

10147212

—

AA

B

C

D

E

LF

AA

Position

04

2 X 20

06

2 X 30

64

2 X 32

08

2 X 40

10

2 X 50

12

2 X 60

14

2 X 70

B

For Receptacle See Drawing 10147212

MATED HEIGHT

PLUG 1

PLUG 2

PLUG 3

PLUG 4

RECEP 2

RECEP 3

RECEP 4

E

Packaging

6

T&R without metal cap (with kapton tape)

D

Polarization Peg

Hold Down

0

YES

NO

2

NO

NO

10147213

—

AA

B

C

D

E

LF

AA

Position

04

2 X 20

06

2 X 30

64

2 X 32

08

2 X 40

10

2 X 50

12

2 X 60

14

2 X 70

B

For Receptacle See Drawing 10147212

MATED HEIGHT

PLUG 1

PLUG 2

PLUG 3

PLUG 4

RECEP 2

RECEP 3

RECEP 4

E

Packaging

6

T&R without metal cap (with kapton tape)

D

Polarization Peg

Hold Down

0

YES

NO

2

NO

NO

Mouser Electronics

Authorized Distributor

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