# 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



#### **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 PCle® 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

# **▶** BergStak® 0.80mm Shielded Board-to-Board Connector

### 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 30m $\Omega$ ; After Test: 50m $\Omega$ 

• Insulation Resistance: 1000M $\Omega$  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 contactUn-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



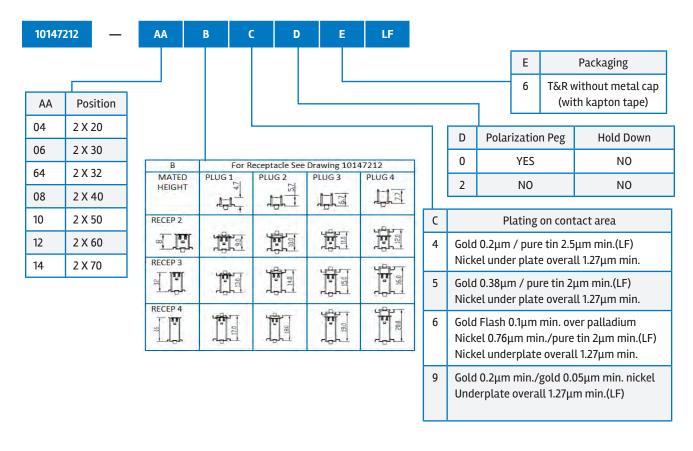
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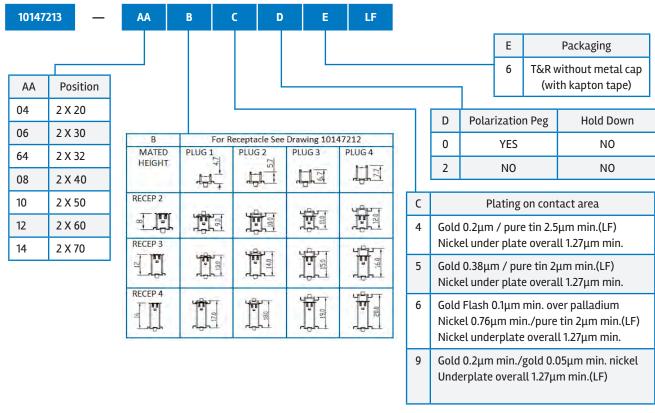
# **PART NUMBERS**

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

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# PART NUMBER SELECTOR





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