

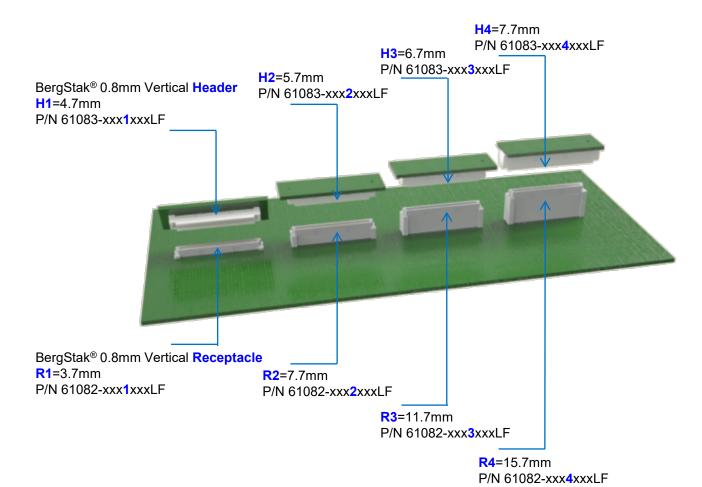
BergStak® 0.80mm **Value Proposition**



- BergStak® 0.80mm connector is flexible solution designed for high speed and high density, parallel board-to-board applications.
- BergStak® 0.80mm is designed for stack heights from 5mm to 20mm (1mm increments), for 20 to 200 signal pins (20, 40, 60, 80, 100, 120, 140, 160, 180, 200).
- BergStak® 0.80mm supports with high speed up to 12Gb/s.
- BergStak® 0.80mm supports **0.8A/pin** with all pin powered.
- BergStak® 0.80mm meets **USCAR-2** vibration and Shock Class V2.
- The unique scoop-proof housing and blade-on-beam terminal features of BergStak® 0.80mm provide easy PCB assembly, prevents reverse mating and preventing terminal damage.
- BergStak® 0.80mm is ideal for applications in the Communications, Data and Industrial & Instrumentation, Medical and Automotive.

BergStak® 0.80mm **Product Overview**



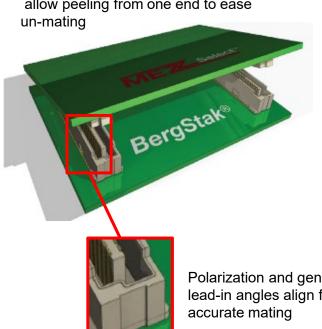


- H means Header height; R means Receptacle height
- Refer to part number scheme in drawing about xxxx definition

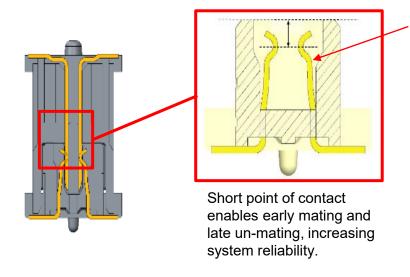
BergStak® 0.80mm **Product Overview**



"blade on beam" contacts prevent subbing and contact damage; and allow peeling from one end to ease



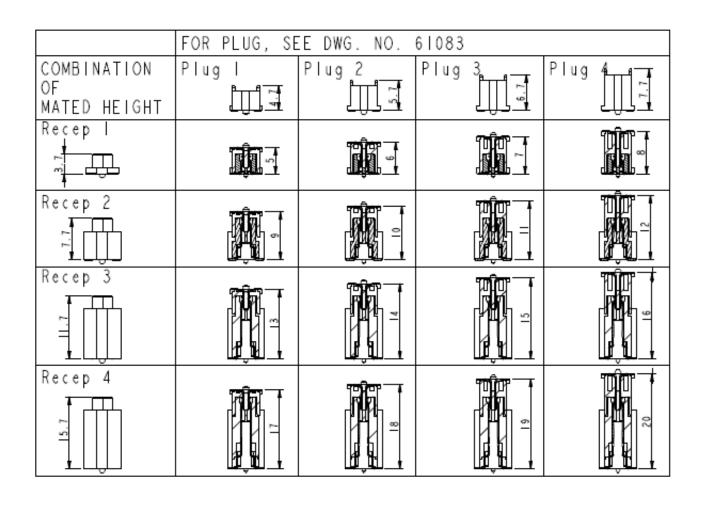
Polarization and generous lead-in angles align for



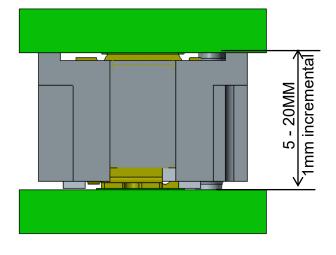
High spring BeCu contact with precision tapered contacts preserves normal force after cycling (durability: 100 mating cycles)

BergStak® 0.80mm **Product Overview**





Stack Height



BergStak® 0.80mm Product Specifications



Specifications

Pitch: 0.80mm

Positions: 20 ~ 200pos in 20pos. Increments

Data rate: Speed up to 12Gb/s

Termination: SMT

Configurations: Vertical

Stack Heights: 5~20mm

USCAR, UL E66906, CS LR46923

Materials

 Header / Receptacle : High temperature thermoplastic LCP, Natural (UL94V-0)

Terminal: Copper Alloy, high spring (Receptacles)
Brass (Headers)

Plating on contact: Gold or GXT

Electrical Performances

Voltage Rating: 100V AC

Current Rating: 0.8A/pin

Insulation Resistance: 1000MΩ min.

Contact Resistance: 30m-ohms max (Initial)

Mechanical Performance

Durability: 100 cycles

Mating Force: 0.9N max. per contact

Un-mating Force: 0.1N min. per contact

Wiping Length: 1.2mm

Environmental

Operating Temperature: -40°C to +125°C

High temperature life: 105°C±5°C for 1000 hours

Humidity: 90-95% relative Humidity for 96 hours

Mixed Flowing Gas : Class 2° (30GXT)

Technical Documents

Product Spec: GS-12-547

Application Spec: GS-20-059

Packaging

Tape and reel

Tube



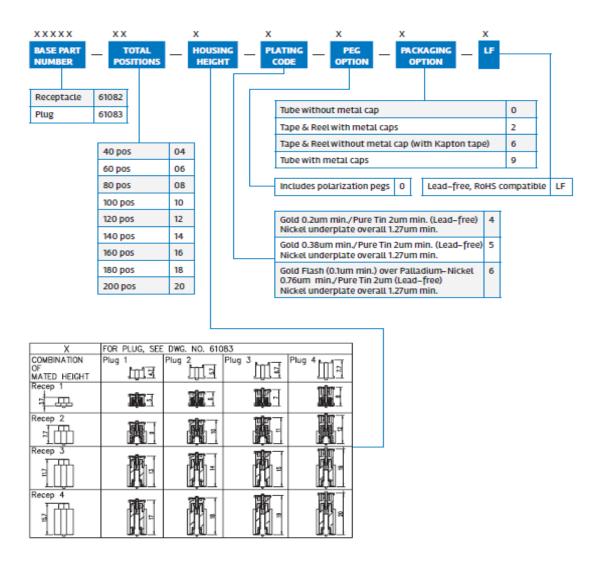
BergStak® 0.80mm Features and Benefits



Features	Benefits
Variable position (20~200pos.) and stack height (5~20mm)	Meets your needs for a wide range of applications
Reliable Blade-on-Beam contact design	Provide reliable mating force and excellent contact performance
Data rate up to 12Gb/s	Compatible with PCle® Gen 1/2/3, 10G Base-KR and SAS 3.0.
Scoop proof housing with ±0.9mm misalignment tolerance	Supports secure blind mating and automatic assembly
Housing with metal hold down	Guarantees stable PCB retention force
Locating pegs available	Enables easy manual assembly
UL94V-0 high temperature LCP material	High flammability rating with operating temperatures up to 125°C
Lead-Free, RoHS and Halogen-free compliant	Meets environmental, health and safety requirements

BergStak® 0.80mm Part Number





BergStak® 0.8mm **Main Markets & Applications**



Data & Communication

- Servers
- Storage
- Open computer platform





Industrial

- **Analytical Instruments**
- Robotics
- PLC & Sever Driver



Consumer

- POS (Point of Sales) Equipments
- **LED Control**
- **Security Systems**







Automotive

- Radar / Lidar
- Flat Panel , Cluster
- **LED Reading Lighting**









BergStak® 0.80mm **Additional information**



- BergStak® 0.8mm Datasheet
- BergStak® 0.8mm Product Presentation
- BergStak® 0.8mm Product Specification
- BergStak® 0.8mm Application Specification
- BergStak® 0.8mm Product overview

BergStak® 0.80mm Generic terms and definitions



Header Housing with pins (male connector)

Receptacle Female housing

Vertical Connection axis perpendicular to the board

SMT Surface-Mount Technology



Thank you