



# **Bergstak® 0.80mm Pitch**

## **Product Presentation**

Basics Portfolio



# Agenda



1. Value Proposition
2. Product Overview
3. Product Specifications
4. Features & Benefits
5. Markets & Applications
6. Marcomm Collaterals

# Bergstak® 0.8 mm



## Value Proposition

Bergstak® 0.8mm is a **comprehensive** and **versatile** solution designed for **high-density** application able to cover all the needs.

The Bergstak® 0.8mm solution includes **12 PCB stack heights** in **9 sizes** up to **200 positions**.

The **dedicated design** of the Bergstak® 0.8mm solution for housing and blade-on-beam terminal features provide **easy PCB assembly**, **worry-free mating** and **long-term reliability**.

The **Stack height flexibility** supports evolving designs and emerging mechanical requirements with a common mating interface.

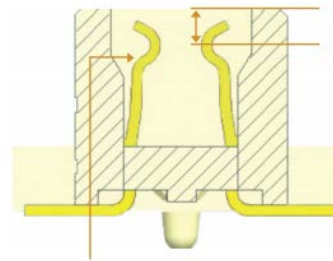
# Bergstak® 0.8 mm

## Product Overview



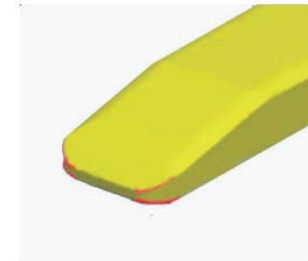
B	FOR PLUG, SEE DWG. NO. 61083			
COMBINATION OF MATED HEIGHT	Plug 1	Plug 2	Plug 3	Plug 4
Recep 1				
Recep 2				
Recep 3				
Recep 4				

### RECEPTACLE



Early-contact point allows early engagement/ late disengagement and increases mating wipe

### HEADER



Coined contact tips assure smooth, safe wiping action during connector mating

# Bergstak® 0.8 mm



## Product Specifications

### Product Facts

- 0.8mm double-row contact pitch
- Vast range of sizes and stack heights
- 5mm to 16mm stack heights in 1mm increments
- Choice of gold-based and palladium-based platings
- Tapered PCB locator pegs increase the ease and accuracy of hand assembly
- Blade-on-beam contacts allow peeling for safer, easier un-mating

### Specifications

Pitch	0.8 mm
Pin Count	From 40 to 200 pos
PCB Termination	SMT
Header Direction	Vertical
Plating	Gold 0.2 $\mu$ m / Palladium-Nickel (0.76 $\mu$ m min.) with gold flash (0.1 $\mu$ m min.)
Specifications	UL File no. E66906 / CS File no. LR46923

### Technical Documents

- Product Spec. : GS-12-547
- Test Report : DGS-29-010

### Performance Characteristics

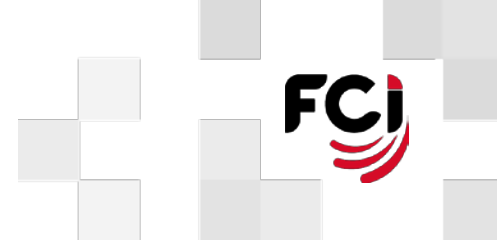
- Durability: 100 cycles
- Mating Force: 0.9N max./contact
- Un-mating Force: 0.9N max./contact
- Temperature Range: -40°C to +85°C
- High Temperature Life: 105°C +/-5°C for 1000 hours
- Humidity: 90-95% relative Humidity for 96 Hours
- Mixed Flowing Gas Class 2° (30GXT)
- Insulation Resistance:
  - Initial: 1000 M $\Omega$  min.
  - After Test: 100 M $\Omega$  min.
- Current Rating: 0.8A/contact
- Contact Resistance:
  - Initial: 30 m $\Omega$  max.
  - After Test: 50 m $\Omega$  max.
- Voltage Rating: 100VAC
- Signal Integrity
- (Differential pairs, connector and SMT pads only)
  - Impedance Range: 81 to 108 $\Omega$  @50ps edge (10-90%)
  - Return Loss: <10dB up to 5GHz
  - Insertion Loss: <1.5dB up to 5GHz
  - NEXT:  $\leq$  4.0% for a 50ps edge (10-90%)
  - FEXT:  $\leq$  2.4% for a 50ps edge (10-90%)

### Materials

- Housing
  - Glass filled LCP (UL94V-0)
- Contact Base Metal
  - Receptacles: Copper Alloy, high spring
  - Headers: Brass
- Solder Area Finish In Matte pure tin over nickel

# Bergstak® 0.8 mm

## Features & Benefits



Features	Benefits
40 to 200 position sizes in 20 position increments 5mm to 20mm stack heights in 1mm increments	Comprehensive range of sizes and stack heights to satisfy all needs
Vertical VS vertical mating configuration	Suitable for parallel board stacking applications
Housing and terminal profile guarantees support of up to 16Gbps	Compatible with PCIe® Gen 2/3/4 and SAS 3.0 high speed performance on selected stack heights
0.8mm double-row contact pitch conserves printed circuit board space	High density for all the electrical applications needs
Scoop-proof housings	Ensure terminals are not damaged during mating
Available in UL94V-0 flammability rated LCP	High flammability rating
Multiple plating options available	Satisfies different application requirement
Multiple packaging options available	Suitable for varies feeding processing
PCB locator pegs option	Facilitate ease and accuracy during manual assembly
RoHS compliance and Lead-free	Meet environmental, health and safety requirements

# Bergstak® 0.8 mm



## Main Markets & Applications

### Data & Communication

- Routers
- Office Equipments
- IP Phones
- Servers

### Industrial & Instrumentation

- Portable Industrial Terminals
- Test Equipments
- Measurement Equipments

### Consumer

- POS (Point of Sales) Equipments
- Diagnostical System
- Security Systems



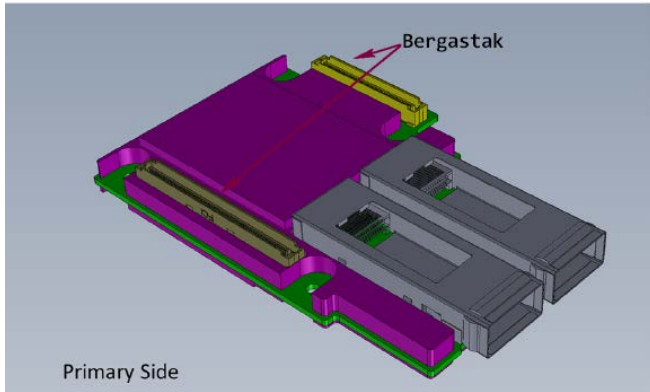


# Bergstak® 0.8 mm



## Main Markets & Applications

Data



CMD

Bergstak



Industry & Instrumentation



Bergstak



# Bergstak® 0.8 mm

## Marcomm Collaterals

Available on FCI

■ Technical Data Sheet

■ Video

■ 3D Views

■ Part Numbers



BOARD/WIRE-TO-BOARD CONNECTORS



### BERGSTAK® 0.8MM MEZZANINE CONNECTORS

Extraordinary product range from 5 to 20mm Stack height; Benchmark performance; Dual-source champion

#### OVERVIEW

Versatile, high density parallel board-to-board connector system offers flexible PCB stack heights in nine sizes up to two hundred positions.

Stack height flexibility supports evolving designs and emerging mechanical requirements with a common mating interface.

Special housing and slide-on-beam terminal features provide easy PCB assembly, worry-free mating and long-term reliability.

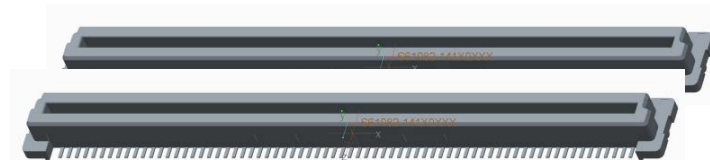


#### FEATURES

- 40 to 200 position sizes in 20 position increments
- Seen to 20mm stack heights in 5mm increments
- Vertical VS vertical mating configuration
- Housing and terminal profile guarantees support of up to 50Gbps
- 0.8mm double-row contact pitch conserves printed circuit board space
- Scept-proof housings
- Available in UL94V-0 (flammability rated LCP)
- Multiple plating options available
- Multiple packaging options available
- RoHS compliance and Lead-free
- PCB locator pegs option

#### BENEFITS

- Vast range of sizes and stack heights support diverse electronic packaging schemes
- Suitable for parallel board stacking applications
- Compatible with PCIe Gen 2/4 and SAS 3.0 high speed performance in selected stack heights
- High density is suitable for vast electrical applications
- Ensure terminals are not damaged during mating
- High flammability rating
- Satisfies different application requirement
- Suitable for various finishing processes
- Aligns with environmental, health and safety requirements
- Facilitates ease and accuracy during manual assembly



Search filters: Gender, Height (Matec), Most Popular Configurat, Number of contacts (Tot), Packaging (Type), Plating (Contact area), Plateration pegs (Roam), RoHS Lead Free Comp.

Search criteria: Start > 0.80 mm (0.031 in.) >

Search Again

Only the first 200 best matching products out of 394 found products will be shown. Results 1 - 20 of 200. Result page: 1 2 3 4 5 6 7 8 9 10 >>

Part Number	Image	Status	Product Name
61062-041402LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle
61062-041402LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle
61062-041420LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle
61062-041422LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle
61062-041500LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle
61062-041502LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle
61062-041500LP		ACTIVE	40 Positions, Dual Row, 8TB Vertical Receptacle



**THANK YOU**

