## BergStak® 0.5mm Mezzanine Connector

## **Expanded product range**

# RELIABLE SOLUTION FOR HIGH DENSITY APPLICATIONS

Amphenol's BergStak® 0.5mm is a comprehensive and versatile board-to-board solution designed for reliable and high-density applications. The unique design of scoop-proof housing ensures terminals are not damaged during mating.

- 0.5mm double row contact for high density connector
- Scoop-proof housing ensures terminals are not damaged during the mating
- PCB locator pegs option helps to ease manual assembly



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- 0.5mm double row contact
- Scoop-proof housings
- Metal hold-down option
- Locating pegs option
- 3mm to 6mm stack heights in 0.5mm increments
- 10 to 80 positions in 10 position increments
- Available in UL94 V0
- USCAR-2 V1 shock and vibration qualified
- RoHS compliant and lead-free

#### **BENEFITS**

- High density connector
- Ensures terminals are not damaged during mating
- Higher retention force
- Eases manual assembly
- Wide range of sizes and stack heights supports different applications
- High flammability rating
- Suitable for automotive applications
- Meets environmental, health and safety requirements

### **▶** BergStak® 0.5mm Mezzanine Connector

#### **TECHNICAL INFORMATION**

#### **MATERIAL**

 Housing: High Temperature Thermoplastic UL94V-0, LCP, Black

• Terminal: Copper alloy

Metal hold-down: Copper Alloy

• Plating: Gold Flash

#### **MECHANICAL PERFORMANCE**

• Mating Force: 1.47N per pin max.

• Unmating Force: 0.15N per pin min.

• Retention Force: 0.98N per pin min.

• Durability: 50 mating cycles

■ Shock and Vibration: USCAR-2 V1

#### **ELECTRICAL PERFORMANCE**

Current Rating per Contact: 0.5A per contact

• Insulation Resistance: 500M $\Omega$  min.

Voltage Rating: 50 VAC

#### **ENVIRONMENTAL**

• Salt Spray Test:

■ 5±1% salt concentration 48±4 hours 35±2°C

■ Thermal Shock: -65°C to +125°C

• High Temperature: 85±2°C for 96 hours

• Humidity:

Temperature: 40±2°C 96 hours
Relative Humidity: 90-95%

■ Duration: 96 Hours

#### **SPECIFICATIONS**

■ Product Specification: GS-12-1298

#### **PACKAGING**

■ Tape & Reel

#### **TARGET MARKETS/APPLICATIONS**



Automotive



Digital Video Camera



Measurement Equipment Mobile Payment Device Point of Sales Equipment Portable Industrial Terminal Surveillance Camera



Medical Device

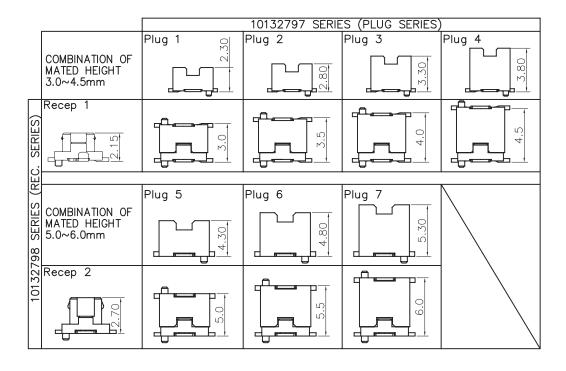
## **▶** BergStak® 0.5mm Mezzanine Connector

## **PART NUMBERS**

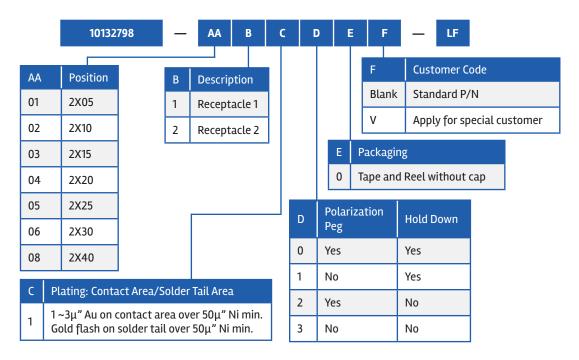
Position	Description	Connector Height (mm)	Stack Height (mm)	Part Numbers
10~80	Plug 1	2.3	3.0	10132797-XX1100LF
XX=01/02/03/04/05/06/08	Receptacle 1	2.15	3.0	10132798-XX1100LF
10~60	Plug 3	3.3	4.0	10132797-XX1300LF
XX=01/02/03/04/05/06	Receptacle 1	2.15	4.0	10132798-XX1100LF
10~60	Plug 5	4.3	F 0	10132797-XX5100LF
XX=01/02/03/04/05/06	Receptacle 2	2.7	5.0	10132798-XX2100LF
10~60	Plug 7	5.3	6.0	10132797-XX7100LF
XX=01/02/03/04/05/06	Receptacle 2	2.7	6.0	10132798-XX2100LF

<sup>\*</sup>For more sizes and configurations, please contact our Amphenol sales representatives.

## **AVAILABLE STACK HEIGHTS**



## P/N SELECTOR- RECEPTACLE



## **P/N SELECTOR- HEADER**

