

# 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



### TARGET MARKETS



### FEATURES

- 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 60 positions in 10 position increments
- Available in UL94 V0
- 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
- Meets environmental, health and safety requirements

## 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

### ELECTRICAL PERFORMANCE

- Current Rating per Contact: 0.5A per contact
- Insulation Resistance: 500M $\Omega$  min.
- Voltage Rating: 50 VAC

### ENVIRONMENTAL

- Salt Spray Test:
  - 5 $\pm$ 1% salt concentration 48 $\pm$ 4 hours 35 $\pm$ 2 $^{\circ}$ C
- Thermal Shock: -65 $^{\circ}$ C to +125 $^{\circ}$ C
- High Temperature: 85 $\pm$ 2 $^{\circ}$ C for 96 hours
- Humidity:
  - Temperature: 40 $\pm$ 2 $^{\circ}$ C 96 hours
  - Relative Humidity: 90-95%
  - Duration: 96 Hours

### SPECIFICATIONS

- Product Specification: GS-12-1298

### PACKAGING

- Tape & Reel

### TARGET MARKETS/APPLICATIONS



Digital Video Camera



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



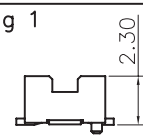
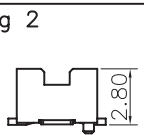
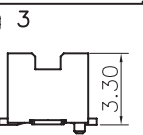
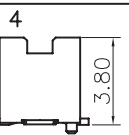
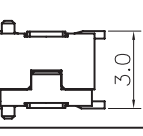
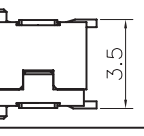
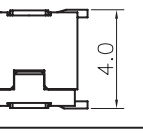
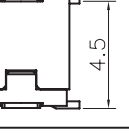
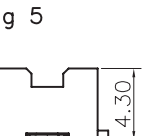
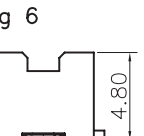
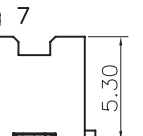
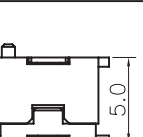
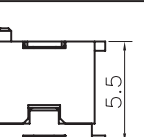
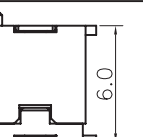
Medical Device

## PART NUMBERS

Position	Description	Connector Height (mm)	Stack Height (mm)	Part Numbers
10	Plug 1	2.30	3.0	10132797-011100LF
10	Receptacle 1	2.15		10132798-011100LF
10	Plug 5	4.30	5.0	10132797-015100LF
10	Receptacle 2	2.70		10132798-012100LF
20	Plug 1	2.30	3.0	10132797-021100LF
20	Receptacle 1	2.15		10132798-021100LF
20	Plug 5	4.30	5.0	10132797-025100LF
20	Receptacle 2	2.70		10132798-022100LF
30	Plug 1	2.30	3.0	10132797-031100LF
30	Receptacle 1	2.15		10132798-031100LF
30	Plug 5	4.30	5.0	10132797-035100LF
30	Receptacle 2	2.70		10132798-032100LF

\*For more sizes and configurations, please contact our Amphenol sales representatives.

## AVAILABLE STACK HEIGHTS

		10132797 SERIES (PLUG SERIES)			
10132798 SERIES (REC. SERIES)	COMBINATION OF MATED HEIGHT 3.0~4.5mm	 Plug 1 2.30	 Plug 2 2.80	 Plug 3 3.30	 Plug 4 3.80
	Recep 1	 3.0	 3.5	 4.0	 4.5
10132798 SERIES (REC. SERIES)	COMBINATION OF MATED HEIGHT 5.0~6.0mm	 Plug 5 4.30	 Plug 6 4.80	 Plug 7 5.30	/
	Recep 2	 5.0	 5.5	 6.0	

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