

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 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

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 Ω 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



Automotive



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
10~80	Plug 1	2.3	3.0	10132797-XX1100LF
XX=01/02/03/04/05/06/08	Receptacle 1	2.15		10132798-XX1100LF
10~60	Plug 3	3.3	4.0	10132797-XX1300LF
XX=01/02/03/04/05/06	Receptacle 1	2.15		10132798-XX1100LF
10~60	Plug 5	4.3	5.0	10132797-XX5100LF
XX=01/02/03/04/05/06	Receptacle 2	2.7		10132798-XX2100LF
10~60	Plug 7	5.3	6.0	10132797-XX7100LF
XX=01/02/03/04/05/06	Receptacle 2	2.7		10132798-XX2100LF

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

AVAILABLE STACK HEIGHTS

		10132797 SERIES (PLUG SERIES)			
COMBINATION OF MATED HEIGHT 3.0~4.5mm		Plug 1 	Plug 2 	Plug 3 	Plug 4
	Recep 1 				
COMBINATION OF MATED HEIGHT 5.0~6.0mm		Plug 5 	Plug 6 	Plug 7 	
	Recep 2 				

P/N SELECTOR– RECEPTACLE

10132798		—	AA	B	C	D	E	F	—	LF
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AA	Position
01	2X05
02	2X10
03	2X15
04	2X20
05	2X25
06	2X30
08	2X40

B	Description
1	Receptacle 1
2	Receptacle 2

F	Customer Code
Blank	Standard P/N
V	Apply for special customer

E	Packaging
0	Tape and Reel without cap

D	Polarization Peg	Hold Down
0	Yes	Yes
1	No	Yes
2	Yes	No
3	No	No

C	Plating: Contact Area/Solder Tail Area
1	1~3μ" Au on contact area over 50μ" Ni min. Gold flash on solder tail over 50μ" Ni min.

P/N SELECTOR– HEADER

10132797		—	AA	B	C	D	E	F	—	LF
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AA	Position
01	2X05
02	2X10
03	2X15
04	2X20
05	2X25
06	2X30
08	2X40

B	Description
1	Receptacle 1
2	Receptacle 2
1	Receptacle 1
2	Receptacle 2
1	Receptacle 1
2	Receptacle 2
2	Receptacle 2

F	Customer Code
Blank	Standard P/N
V	Apply for special customer

E	Packaging
0	Tape and Reel without cap

D	Polarization Peg	Hold Down
0	Yes	Yes
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