

BergStak® 0.40mm Connector

FINE PITCH/WIDE RANGE/ ANTI-VIBRATION/HIGH-SPEED BOARD-TO-BOARD CONNECTORS

Amphenol's BergStak® 0.40mm is a compact board-to-board connector on a 0.40mm pitch with stack heights of 1.5mm and 4mm with 10 to 100 positions. The contact lock function and the shock-absorbing ribs on the housing make this connector highly suitable for high vibration applications. BergStak® 0.40mm supports signal speeds up to 16Gb/s and can be soldered on FPC for flexible board-to-board connections.

- Space-saving 0.40mm contact pitch and positions from 10 to 100.
- 1.5mm and 4mm stack height
- Contact lock function provides high mating reliability
- The lock feature on the contact area provides higher reliability
- USCAR-2 V2 qualified
- High-speed performance: 16Gb/s (PCIe®/USB)
- Self-alignment feature to support FPC-to-Board applications



TARGET MARKETS



FEATURES

- Fine pitch of 0.40mm
- Various stack height and position combinations
- Contact lock feature
- Shock-absorbing ribs
- Misalignment feature
- High-speed performance of 16Gb/s (PCIe®/USB)
- Additional fix tap on the header

BENEFITS

- Space-saving solution with small size, low weight, and high reliability
- Application flexibility
- Provides tactile feedback during blind mating
- Withstands high level of vibration
- Ensures reliable and secure mating
- Supports High-speed applications
- Offers higher PCB retention force

TECHNICAL INFORMATION

MATERIAL

- Housing: High-temperature thermoplastic LCP, Black (UL94V-0)
- Terminal: Copper Alloy, High spring
- Plating: Gold flash

ELECTRICAL PERFORMANCE

- Current Rating: 0.3A per contact (all contacts powered)
- Insulation Resistance: 50MΩ min.
- Voltage Rating: 30VAC/DC
- LLCR: 90mΩ max.
- Data rate: 16Gb/s

MECHANICAL PERFORMANCE

- Mating and Un-mating Force: 0.9N max. & 0.1N min./contact
- Durability: 30 cycles
- Mechanical Shock and Vibration: USCAR-2 V2

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C
- Mixed Flowing Gas Corrosion: IEC 60512-11-7, Class -IIA

APPROVALS AND CERTIFICATIONS

- UL E66906

SPECIFICATIONS

- Product Specification: GS-12-1404

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Advanced Driver Assistance Systems (ADAS)

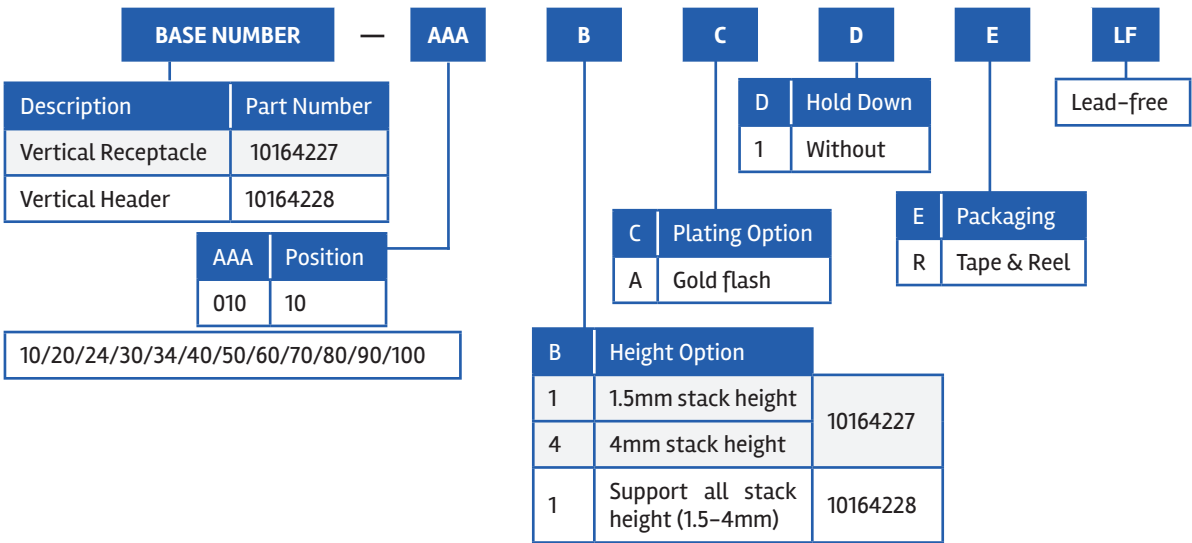


PC/Tablet
Smart Devices



Server/Storage

PART NUMBER SELECTOR



PART NUMBERS

Description	Part Numbers
BergStak® 0.4mm, 10position, Receptacle, 1.5mm stack height	10164227-0101A1RLF
BergStak® 0.4mm, 20position, Receptacle, 1.5mm stack height	10164227-0201A1RLF
BergStak® 0.4mm, 24position, Receptacle, 1.5mm stack height	10164227-0241A1RLF
BergStak® 0.4mm, 30position, Receptacle, 1.5mm stack height	10164227-0301A1RLF
BergStak® 0.4mm, 34position, Receptacle, 1.5mm stack height	10164227-0341A1RLF
BergStak® 0.4mm, 40position, Receptacle, 1.5mm stack height	10164227-0401A1RLF
BergStak® 0.4mm, 50position, Receptacle, 1.5mm stack height	10164227-0501A1RLF
BergStak® 0.4mm, 60position, Receptacle, 1.5mm stack height	10164227-0601A1RLF
BergStak® 0.4mm, 70position, Receptacle, 1.5mm stack height	10164227-0701A1RLF
BergStak® 0.4mm, 80position, Receptacle, 1.5mm stack height	10164227-0801A1RLF
BergStak® 0.4mm, 90position, Receptacle, 1.5mm stack height	10164227-0901A1RLF
BergStak® 0.4mm, 100position, Receptacle, 1.5mm stack height	10164227-1001A1RLF
BergStak® 0.4mm, 40position, Receptacle, 4mm stack height	10164227-0404A1RLF
BergStak® 0.4mm, 50position, Receptacle, 4mm stack height	10164227-0504A1RLF
BergStak® 0.4mm, 60position, Receptacle, 4mm stack height	10164227-0604A1RLF
BergStak® 0.4mm, 70position, Receptacle, 4mm stack height	10164227-0704A1RLF
BergStak® 0.4mm, 80position, Receptacle, 4mm stack height	10164227-0804A1RLF
BergStak® 0.4mm, 90position, Receptacle, 4mm stack height	10164227-0904A1RLF
BergStak® 0.4mm, 100position, Receptacle, 4mm stack height	10164227-1004A1RLF
BergStak® 0.4mm, 10position, Header, 1.5mm&4mm stack height	10164228-0101A1RLF
BergStak® 0.4mm, 20position, Header, 1.5mm&4mm stack height	10164228-0201A1RLF
BergStak® 0.4mm, 24position, Header, 1.5mm&4mm stack height	10164228-0241A1RLF
BergStak® 0.4mm, 30position, Header, 1.5mm&4mm stack height	10164228-0301A1RLF
BergStak® 0.4mm, 34position, Header, 1.5mm&4mm stack height	10164228-0341A1RLF
BergStak® 0.4mm, 40position, Header, 1.5mm&4mm stack height	10164228-0401A1RLF
BergStak® 0.4mm, 50position, Header, 1.5mm&4mm stack height	10164228-0501A1RLF
BergStak® 0.4mm, 60position, Header, 1.5mm&4mm stack height	10164228-0601A1RLF
BergStak® 0.4mm, 70position, Header, 1.5mm&4mm stack height	10164228-0701A1RLF
BergStak® 0.4mm, 80position, Header, 1.5mm&4mm stack height	10164228-0801A1RLF
BergStak® 0.4mm, 90position, Header, 1.5mm&4mm stack height	10164228-0901A1RLF
BergStak® 0.4mm, 100position, Header, 1.5mm&4mm stack height	10164228-1001A1RLF

	1.5mm Stack Height	4.0mm Stack Height
Receptacle	10164227-AAA1A1RLF	10164227-AAA4A1RLF
Header	10164228-AAA1A1RLF	10164228-AAA1A1RLF

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