

0.80mm Board-to-Board 85 Ω - G832MB Series

0.80MM PITCH, 85 Ω BOARD-TO-BOARD SOLUTION

Amphenol high speed board-to-board connectors provide high contact force reliability ensuring strong connectivity, forced insertions, and removals.

Broad range of stacking heights and pin counts are offered to provide maximum design flexibility.

Amphenol 0.80mm pitch connector design is suitable for high performance applications.

- Superior signal integrity (SI) performance
- High contact force ensures mating reliability
- Polarization key at pin edge to prevent misalignment
- All stack heights meet PCIe Gen 3, 8GT/s
- Gold flash plating protects against corrosion



FEATURES

- 5 to 20mm stack heights
- 20 to 120 position sizes in 20 position increments
- Polarization key, and coined feature at pin edge
- Snap-in and catch operation
- 85Ω differential impedance
- Gold flash (8, 15, 30µin) gold plating for reliable mating
- 0.10mm max. coplanarity for SMT process
- All stack heights meet PCIe Gen 3, 8GT/s electrical requirements

BENEFITS

- Wide range of options for different application needs
- Strengthens lead-in and improves contact wipe during connector mating
- Superior tactile sense
- Robust mating operation ensures strong connection
- Optimized high speed performance at all stack heights
- Improves contact resistance and prevents corrosion
- Caps, mylar and PCB locator pegs options available for correct board orientation
- Superior signal integrity (SI) performance

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, UL 94V-0, other color options available
- Contact: Copper Alloy, 0.15mm thickness,
- Plating: Selective gold-plated on contact area,
 100u" min. matte tin plated on soldering tail,
 50u" min. nickel under-plated overall
- Cap: Stainless steel, 0.20mm thickness

MECHANICAL PERFORMANCE

- Insertion Force: 0.9N (90 gf) max. per contact
- Withdrawal Force: 0.1N (10 gf) min. per contact
- Durability: 100 mating cycles
- Vibration: No disturbance >1μs
- Mechanical Shock: No disturbance >1μs

ELECTRICAL PERFORMANCE

- Low Level Contact:
 - Initial: $30m\Omega$ max.
 - Final Δ R: 20m Ω max.
- Current Rating: 0.8A per contact
- Temperature Rise: T30°C max.
- Insulation Resistance: $1000 m\Omega$ min.
- Differential Impedance: 85±10 Ω
- Voltage Rating: 100VAC/DC

PACKAGING

- Tape and Reel
- Tube available upon request

SPECIFICATION

■ Amphenol Product Specification: PS-7562

ENVIRONMENTAL

- Operating Temperature: -40°C to 125°C
- Shipping and Storage Temperature: -40°C to 125°C
- Thermal Shock: No damage Δ R: 20m Ω max.
- Cyclic Temperature and Humidity: No damage Δ R: 20m Ω max.
- Temperature Life: No damage Δ R: 20m Ω max.
- Mixed Flowing Gas: No damage Δ R: 20m Ω max.
- Thermal Disturbance: No damage Δ R: 20m Ω max.
- Solderability: 95% of immersed area, No voids and pin holes
- Soldering Heat: No damage

TARGET MARKETS/APPLICATIONS



IP Phone Telecom/Datacom equipment



High End Computers Router Servers Test Card and Card Extenders



Test and Measurement Equipment

PART NUMBERS

	Description	Part Numbers
	0.80mm pitch Receptacle, Dual Row, Vertical, SMT	G832MB0XXXXXXXXXHR
	0.80mm pitch Header, Dual Row, Vertical, SMT	G832MB1XXXXXXXXXHR

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

G832MB111003222HF	G832MB110645222HF	G832MB010645222HR	G832MB011005222HR
G832MB011201222HR	G832MB010806222HR	G832MB010805222HR	G832MB010641222HR
G832MB011206222HR	G832MB110605222HR	G832MB110642222HR	G832MB111205222HR
G832MB110805222HR	G832MB011205222HR	G832MB110802222HR	G832MB010801222HR
G832MB010606222HR	G832MB110405122HR	G832MB110802322HR	G832MB111205322HR
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G832MB010807322HR	G832MB110603222HR	G832MB110403022HR	G832MB130605222HR