

Header WTB G823® 2.0mm Pitch Plug

CUSTOMIZABLE SHROUDED WIRE-TO-BOARD HEADER

Header WTB G823® 2.0mm pitch plug is the most common solution for transferring power and signal. It can mate with both wire to board and board to board application. This series can carry a maximum current rating of 2.5A. Amphenol ICC offers a comprehensive range of these headers including, V/T DIP, V/T SMT, R/A DIP to meet various customer requirement. It comes in customizable pin length, including contact pin and solder tail, which makes it an ideal choice for several applications and specific designs.

- Flexible and easy to change pin lengths to meet various application requirements
- Cost-effective
- Suitable for both wire-to-board and board-to-board application
- Supports PIP process
- Easy pin insertion and high retention force onto PCB



TARGET MARKETS



FEATURES

- Customizable pin length, including contact pin and solder tail
- Various mounting options including vertical DIP, right angle DIP, vertical SMT and right angle SMT
- High temperature thermoplastic material
- Tape and reel packaging option
- RoHS compliance and halogen Free
- Stand-off design
- Meet USB2.0 and USB3.0 Signal
- Mates with Header WTB G862® and Header BTB G827

BENEFITS

- Suitable for different application and specific designs
- Ease in choosing board mating configurations
- Reflow compatible
- Supports PIP process
- Meets environmental, health and safety requirements
- Ease of cleaning the PCB
- Can meet 3G and 5G speed
- Mutually compatible for wire to board or board to board application

TECHNICAL INFORMATION

MATERIAL

- High temperature thermoplastic, UL 94 flammability rated
- Contacts: Copper alloy, selective gold plating or tin plated on contact area, selective gold plated or tin plated plating on solder tail and nickel plated under-plated overall

ELECTRICAL PERFORMANCE

- Current rating: 2.5A AC/DC
- Voltage rating: 250V DC
- Temperature: -25°C to +85°C
- Contact retention: Initial- 20mΩ max., after environmental test- 30mΩ max.
- Insulation resistance: 1000MΩ min.

MECHANICAL PERFORMANCE

- Contact retention: 1.00kgf min. before solder, 0.60kgf min. after solder
- Contact resistance: $\Delta R=10m\Omega$
- Maximum insertion force: 3.5N/ per pin max.
- Withdrawal force: 0.25N/ per pin min.

SPECIFICATION

- Amphenol Product Specification: PS-7522

ENVIRONMENTAL

- EIA 364-31 method III test condition A
- Temperature: 25°C to 65°C
- Humidity: 90% to 95% RH
- Period: 96 hours
- Salt Spray: 5% 48 hours at 35°C

PACKAGING

- Operating Procedure: #COP-15-1
- Packing Specification: PKS-0001

TARGET MARKETS/APPLICATIONS



Communications



Portable device



Mother board
Riser card
Signal transmission



POS
Smart meter
Control board



Medical