

Mini Power 4.2 Connector System – G87 Series

MINI POWER CARRIES 9A PER PIN FOR WIRE-TO-BOARD APPLICATIONS

Mini Power 4.2 connector system is a 4.20mm pitch power connector designed for wire-to-board applications. It is mainly used for power applications and supports current rating up to 9A per pin and wire gauge range from 28–16AWG. It comes in 2 to 24 circuits for dual row.

- Current rating up to 9A per pin
- 2 to 24 circuits for dual row
- Boardlock, SMT, Through hole termination options available



TARGET MARKETS



FEATURES

- Compact power connector with current rating of 9A per pin
- Boardlock option
- Scoop-proof housings
- Fully isolated pins
- High temperature NY9T and LCP housing meets UL94V-0 and UL94V-2

BENEFITS

- Certified by EIA (Energy Information Administration) and UL
- Ensures strong retention force
- Prevents mismatching between header and receptacle
- Protects contacts against potential damage during handling and mating
- Meet safety requirements and able to withstand high temperatures

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, complies with UL 94V-0, Black and natural option
- Contact: Copper alloy, selective gold plating on contact area, 100u" tin plated on soldering tail, 50u" min nickel under-plated overall

MECHANICAL PERFORMANCE

- Insertion Force: 15N max. per pin
- Extraction Force: 1N min. per pin
- Contact Retention Force: 4.5N min.

ELECTRICAL PERFORMANCE

- Current Rating: 9A per contact
- Contact Resistance: 10mΩ
- Voltage: 600V AC

ENVIRONMENTAL

- Humidity:
 - Contact Resistance
 - R=+10mΩ max.
- Temperature Life:
 - Contact Resistance
 - R=+10mΩ max.
- Thermal Shock:
 - Contact Resistance
 - R=+30mΩ max.
- Solderability: 95% of immersed area must show no voids, Pin holes.
- Salt Spray:
 - Contact Resistance
 - R=+10mΩ max.
- Resistance to soldering heat: No evidence of physical damage

PACKAGING

- Tape and Reel
- Tray

SPECIFICATION

- Amphenol Product Specification: PS-7423

TARGET MARKETS/APPLICATIONS



Telecommunications



Drone



Data Center
Server
Storage



Industrial



Medical

PART NUMBERS

Description	Pitch	Part Numbers
Mini Power, Header Straight DIP type	4.2 mm	G874DXX1X1XCEU
Mini Power, Header Straight DIP type	4.2 mm	G874DXX1X0XCXEU
Mini Power, Header Straight DIP type	4.2 mm	G874DXX110PTEU
Mini Power, Header Straight DIP type	4.2 mm	G874DXX1X1XC1EU
Mini Power, Header Straight DIP type	4.2 mm	G874DXX111P1EU
Mini Power, Header Right Angle DIP type	4.2 mm	G874DXX2X1XXEU
Mini Power, Header Right Angle DIP type	4.2 mm	G874DXX2X1XC5EU
Mini Power, Header Right Angle DIP type	4.2 mm	G874DXX2X0XC1EU
Mini Power, Header Right Angle DIP type	4.2 mm	G874DXX2X1XACEU
Mini Power, Header Right Angle DIP type	4.2 mm	G874DXX2X1XC3EU
Mini Power, Cable Housing	4.2 mm	G873HXXXXCEU
Mini Power, Cable Terminal	4.2 mm	G873CX1XXCEU