

# 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
- One and two plastic pegs options



### TARGET MARKETS



### FEATURES

- Compact power connector with current rating of 9A per pin
- One and two plastic pegs options
- 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, 100µin Tin plated on soldering tail, 50µin 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	4.2mm	G874DXX1X1XCEU
Mini Power, Header Straight DIP type	4.2mm	G874DXX1X0XCXEU
Mini Power, Header Straight DIP type	4.2mm	G874DXX110PTEU
Mini Power, Header Straight DIP type	4.2mm	G874DXX1X1XC1EU
Mini Power, Header Straight DIP type	4.2mm	G874DXX111P1EU
Mini Power, Header Right Angle DIP type	4.2mm	G874DXX2X1XXEU
Mini Power, Header Right Angle DIP type	4.2mm	G874DXX2X1XC5EU
Mini Power, Header Right Angle DIP type	4.2mm	G874DXX2X0XC1EU
Mini Power, Header Right Angle DIP type	4.2mm	G874DXX2X1XACEU
Mini Power, Header Right Angle DIP type	4.2mm	G874DXX2X1XC3EU
Mini Power, Cable Housing	4.2mm	G873HXXXXCEU
Mini Power, Cable Terminal	4.2mm	G873CX1XXCEU