

Mini Power Plus 4.2 Connector System – G87MP Series

MINI POWER PLUS CARRIES 13A PER PIN FOR WIRE-TO-BOARD APPLICATIONS

Mini Power Plus 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 13A per pin and wire gauge range from 20–16AWG. It comes in 2 to 24 circuits for dual row.

- Current rating up to 13A 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 13A 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: 13A 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.
- Salt Spray:
 - Contact Resistance
 - R=+10mΩ max.
- Resistance to soldering heat: No evidence of physical damage

PACKAGING

- Tape and Reel
- Tray

APPROVALS AND CERTIFICATIONS

- UL

SPECIFICATION

- Amphenol Product Specification: PS-7529

TARGET MARKETS/APPLICATIONS



Telecommunications



Drone



Data Center
Server
Storage



Industrial



Medical

PART NUMBERS

Description	Pitch	Part Numbers
Mini Power Plus, Header Straight DIP type	4.2mm	G87MPXX1X1XP1HR
Mini Power Plus, Header Straight DIP type	4.2mm	G87MPXX1X1XC2HR
Mini Power Plus, Header Straight DIP type	4.2mm	G87MPXX1X1XC1HR
Mini Power Plus, Header Straight DIP type	4.2mm	G87MPXX1X0XXHR
Mini Power Plus, Header Straight DIP type	4.2mm	G87MPXX1X0XXCHR
Mini Power Plus, Header Right Angle DIP type	4.2mm	G87MPXX2X0XCHR
Mini Power Plus, Header Right Angle DIP type	4.2mm	G87MPXX2X0XXHR
Mini Power Plus, Header Right Angle DIP type	4.2mm	G87MPXX2X1XHR
Mini Power Plus, Header Right Angle DIP type	4.2mm	G87MPXX2X1XHR
Mini Power Plus, Cable Housing	4.2mm	G87MPHXXXCEU
Mini Power Plus, Cable Terminal	4.2mm	G87MPC21XXCEU