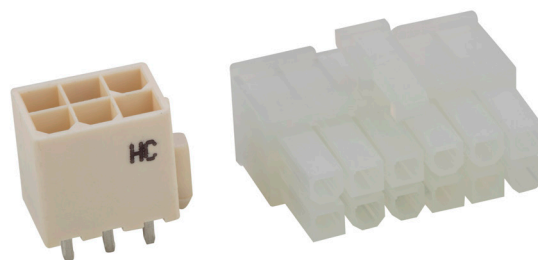# Mini Power Plus 4.2 Connector System – G87MP Series

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
- Boardlock, SMT, Through hole termination options available

NEW

TARGET MARKETS

FEATURES

- Compact power connector with current rating of 13A 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 mismating 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: 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

Mini Power Plus 4.2 Connector System – G87MP Series

PART NUMBERS

Description	Pitch	Part Numbers
Mini Power Plus, Header Straight DIP type	4.2 mm	G87MPXX1X1XP1HR
Mini Power Plus, Header Straight DIP type	4.2 mm	G87MPXX1X1XC2HR
Mini Power Plus, Header Straight DIP type	4.2 mm	G87MPXX1X1XC1HR
Mini Power Plus, Header Straight DIP type	4.2 mm	G87MPXX1X0XXHR
Mini Power Plus, Header Straight DIP type	4.2 mm	G87MPXX1X0XXCHR
Mini Power Plus, Header Right Angle DIP type	4.2 mm	G87MPXX2X0XCHR
Mini Power Plus, Header Right Angle DIP type	4.2 mm	G87MPXX2X0XXHR
Mini Power Plus, Header Right Angle DIP type	4.2 mm	G87MPXX2X1XHR
Mini Power Plus, Header Right Angle DIP type	4.2 mm	G87MPXX2X1XHR
Mini Power Plus, Cable Housing	4.2 mm	G87MPHXXXXCEU
Mini Power Plus, Cable Terminal	4.2 mm	G87MPC21XXCEU

Mouser Electronics

Authorized Distributor

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G87MP082212HR	G87MP242202CHR	G87MP041212C2HR	G87MP081212C1HR	G87MP121212P1HR
G87MP141215C1HR	G87MP241202PHR	G87MP061215C1HR	G87MP081202PHR	G87MP021205CHR
G87MP021215C1HR	G87MP041205CHR	G87MP041215C1HR	G87MP061205CHR	G87MP201215C1HR
G87MP221202PHR	G87MP221215C1HR	G87MP241215C1HR	G87MP161205CHR	G87MP161215C1HR
G87MP181202PHR	G87MP181205CHR	G87MP181215C1HR	G87MP201202PHR	G87MP081215C1HR
G87MP101205CHR	G87MP101215C1HR	G87MP121205CHR	G87MP121215C1HR	G87MP141205CHR