

Micro Power Top OCP 12 V PIC Power

13.5 A/PIN, 12 V WTB POWER+SIGNAL, 5 OZ 6L PCB

Micro Power Top OCP 12 V PIC Power is a 3.0 mm pitch power connector designed for wire-to-board power and signal connections, suitable for various power applications based on different wire gauges and circuits. It can provide a maximum of 13.5 A per pin, with wire gauges ranging from 14 AWG to 18 AWG. It also features a special fool-proof design to prevent incorrect insertion across different circuits. This series is available with 6 to 12 circuits for dual-row configurations. Additionally, it has a low-force terminal design that reduces mating force when customers use more circuits.

- 12 A/pin (12P12S); 13.5 A/pin (6P6S) max. (for 14 AWG) with 5oz 6-layers PCB
- 6P6S & 12P12S configuration
- Wire-to-board solution
- Fully isolated pins
- Both Power & Signal Function



TARGET MARKETS



FEATURES

- Compact power connector (current rating of 13.5 A/pin Max with 5oz 6-layers PCB)
- Through-hole design
- Wire to board solution
- High temperature LCP housing (available in 94V-0)
- Standoff design
- Fool-proof solution
- Fully isolated pins
- Cable-side terminal soldering design

BENEFITS

- EIA certificate and UL yellow card
- High current & better retention force on PCB design
- Better space utilization
- Meet safety & PIP requirements
- Both Power & Signal Function
- Ensures the header and receptacle or plug and receptacle cannot be mis-mated
- Protects contacts against potential damage during handling and mating
- 14 AWG to 18 AWG available

TECHNICAL INFORMATION

MATERIAL

- Housing: High Housing: High temperature thermoplastic, complies with 94 V-0, Black
- 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: 8 N max. per pin
- Extraction Force: 2 N min. per pin
- Terminal Retention force in Housing for cable assembly:
 - Power Pin: 15 N min.
 - Signal Pin 9 N min.

PACKAGING

- Tape & Reel

ELECTRICAL PERFORMANCE

- Current Rating: 12 A/pin (12P12S); 13.5 A/pin (6P6S) maximum (For 14 AWG) with 5 oz 6 layers PCB
- Contact Resistance:
 - Power pin 10 mΩ max.
 - Signal pin 30 mΩ max.
- Voltage: 250 VAC

SPECIFICATIONS

- Amphenol Specification: PS-xxxxxx

ENVIRONMENTAL

- Operation Temperature Range: -40 °C to +85 °C

APPROVALS AND CERTIFICATION

- EIA

TARGET MARKETS/APPLICATIONS



Communications



Consumer



Data center
Server
Storage
Switch



Industrial & Instrumentation

PART NUMBERS

Description	Part Numbers
Micro Power Top 3.0 mm pitch, header straight Dip type	G88PPXX1X2XXXHR
Micro Power Top 3.0 mm pitch, header right angle Dip type	G88PPXX0X2XXXHR
Micro Power Top 3.0 mm pitch, cable housing	G88PPHX2XXSXTHR
Micro Power Top 3.0 mm pitch, cable terminal, AWG#14~18 (Power)	G88CFCXXXTEU
Micro Power Top 1.5 mm pitch, cable terminal, AWG#28 (Signal)	G88PPCXXXTEU

Find part number details using the search box on www.amphenol-cs.com

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