# 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 | G88PPHXX2XXSXTHR |
| Micro Power Top 3.0 mm pitch, cable terminal, AWG#14~18 (Power) | G88CFCXXXXTEU |
| Micro Power Top 1.5 mm pitch, cable terminal, AWG#28 (Signal) | G88PPCXXXXTEU |

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

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