Micro Power Top PCIE® CEM 5 Power

COMPACT PCIE® CEM 5.0 POWER & SIGNAL, 9.5 A/PIN

Micro Power Top PCIe® CEM 5 Power is a 3.0 mm pitch power connector designed for power and signal functions in wire-to-board configurations. It is suitable for power applications based on different wire gauges and circuits. It can provide a maximum of 9.5 A per pin, with wire gauges ranging from 16 AWG to 18 AWG. It also features a special foolproof design to prevent incorrect insertion between different circuits. This series is available for 12 circuits for dual-row setups. Additionally, it has a low-force terminal design, which reduces mating force when customers use more circuits.

- 9.5 A/pin (16 AWG); 7.6 A/pin (18 AWG) max.
- 12-pin configuration
- Wire-to-board solution
- Fully isolated pins
- Both Power & Signal Function



TARGET MARKETS



FEATURES

- Compact power connector (current rating of 9.5 A/pin)
- 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 crimping design

BENEFITS

- EIA 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
- 16 AWG & 18 AWG available

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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: 9.5 A/pin (16 AWG); 7.6 A/pin (18 AWG) max.
- Contact Resistance:
  - Power pin 10 mΩ max.
  - Signal pin 30 mΩ max.
- Voltage: 250 VAC

SPECIFICATIONS

- Amphenol Specification: PS-07910

ENVIRONMENTAL

- Humidity: Contact Resistance:
  - Power pin ΔR=+20 mΩ max.
  - Signal pin ΔR=+60 mΩ max.
- Slat Spray: Contact Resistance:
  - Power pin ΔR=+20 mΩ max.
  - Signal pin ΔR=+60 mΩ max.
- Resistance to soldering heat: No evidence of physical damage
- Thermal Shock: No evidence of damage. Contact resistance:
  - Power pin ΔR=+20 mΩ max.
  - Signal pin ΔR=+60 mΩ max.

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	G88CFXX1X2XXXHR
Micro Power Top 3.0 mm pitch, header right angle Dip type	G88CFXX0X2XXXHR
Micro Power Top 3.0 mm pitch, cable housing	G88CFHXX2XXSXTHR
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)	G88CFCXXXXT1EU

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

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