

## Mini Power Super Series

### 4.20MM PITCH 20A PER PIN WIRE-TO-BOARD CONNECTOR

Mini power super series is a 4.20mm pitch power connector designed for flexible wire-to-board applications based on different wire gauges and circuits. It provides a maximum current rating of 20A/pin and accommodates wire gauge of 16AWG and 14AWG. It is foolproof against mismatching among different circuits. This series is available in 2 to 24 circuits for dual row.

- Current Rating: 20A/pin max.
- Contact options from 2 to 24
- Meets PiP requirement
- Available with and without plastic peg options



#### TARGET MARKETS



#### FEATURES

- Current rating of 20A/pin
- Through hole design
- High temperature LCP housing (available in UL94V-0)
- Foolproof solution
- Fully isolated pins
- Available in wire sizes of 16AWG and 14AWG

#### BENEFITS

- Compact and high current power connector
- Better retention force on PCB
- Meets safety and PiP requirements
- Avoids mismatching
- Protects contacts against potential damage during handling and mating
- Application flexibility

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High housing: High temperature thermoplastic, complies with 94V-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: 15N max. per pin
- Extraction Force: 1.0N min. per pin
- Terminal Retention Force in Housing for cable assembly: 30N min.

### ELECTRICAL PERFORMANCE

- Current Rating: 20A per contact max.
- Contact resistance: 20m(Ω)
- Voltage: 500V AC

### PACKAGING

- Tray
- Tape & Reel

### SPECIFICATION

- Amphenol Specification: PS-7736

### ENVIRONMENTAL

- Humidity: Contact resistance,  $\Delta R = +10m\Omega$  max.
- Salt Spray: Contact resistance,  $\Delta R = +20m\Omega$  max.
- Resistance to Soldering Heat: No evidence of physical damage
- Thermal Shock: No evidence of damage. Contact resistance:  $\Delta R = +30m\Omega$  max.
- Thermal Contact Resistance:  $\Delta R = +20m\Omega$  max.

### APPROVALS AND CERTIFICATIONS

- EIA
- UL

### TARGET MARKETS/APPLICATIONS



Consumer



Communications



Server, Storage and Switch



Industrial & Instrumentation

## PART NUMBERS

Description	Part Numbers
Mini power super 4.20mm pitch, header V/T DIP type	G87MPSXX1X0XXHR
Mini power super 4.20mm pitch, header R/A DIP type	G87MPSXX2X0XCHR
Mini power super 4.20mm pitch, cable terminal, 16AWG and 14AWG	G87MPSCX6XXCXHR
Mini power super 4.20mm pitch, cable housing	G87MPSHXXX2HR