

PWRMAX® Power Connectors

HIGH DENSITY POWER AND SIGNAL CONNECTOR SYSTEM

The PwrMAX® connector family offers a compact means for connecting up to 100A DC power in modern system architectures requiring high density and high current. Configurations include coplanar, backplane, mezzanine and orthogonal.

- 100A per contact
- Blind-mating
- GCS® plating provides low resistance
- Press-fit and solder tail termination
- 10 points of contact for long term reliability



FEATURES

- GCS® plating technology
- Industry proven contact design with 10 points of contact
- High temperature thermoplastic housing
- Halogen-free housing
- Coplanar, backplane, mezzanine and orthogonal configurations

BENEFITS

- Provides very low resistance and low voltage drop
- Provides superior and long term reliability
- Wide operating temperature from -40°C to +125°C
- Meets next generation environmental requirements
- Modular design for both PCB and busbar applications

TECHNICAL INFORMATION

MATERIAL

- Power Contacts: High Conductivity Copper Alloy
- Housing: High Temperature Thermoplastic, UL94V-0
- Contact Finish: GCS® plating over Nickel

MECHANICAL PERFORMANCE

- Mating Force: 20N max. per contact
- Insertion Force: 67N max. per pin
- Retention Force: 15N min. per pin

ELECTRICAL PERFORMANCE

- Current Rating: up to 100A per contact (30°C temperature rise in still air)
- Dielectric Withstanding Voltage: 1800V
- Contact Resistance: 0.3mΩ max. at end-of-life conditions

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- RoHS: this product is compatible according to the European Union Directive 2002/95/IEC

SPECIFICATIONS

- Coplanar/Backplane:
 - Product Specification: GS-12-1314
 - Application Specification: GS-20-0447
- Orthogonal:
 - Product Specification: GS-12-1342
 - Application Specification: GS-20-0452

PACKAGING

- Trays

TARGET MARKETS/APPLICATIONS



Datacom/Networking Equipment
Switches
Telecom



Server
Storage Equipment



Industrial Equipment

PART NUMBERS

Description	Mounting Style	Part Numbers
PwrMAX® BTB right angle receptacle 6HP24S	PCB retention pegs	10136993-001LF
PwrMAX® BTB right angle plug 4LP6HP24S	PCB boardlocks	10133137-003LF
PwrMAX® Mezzanine vertical receptacle	PCB retention pegs	10137124-001LF
PwrMAX® Mezzanine vertical plug	PCB boardlocks	10137125-002LF
PwrMAX® Ortho right angle plug	PCB boardlocks	10132640-001LF
PwrMAX® Ortho right angle receptacle	PCB retention pegs	10132644-002LF
PwrMAX® Ortho vertical receptacle	PCB retention pegs	10133407-002LF

Disclaimer