

BarKlip® BK150 Connector

LOW RESISTANCE BUSBAR CONNECTOR

The BarKlip® BK150 connector features 10 independent conducting beams that maintain contact with the mating busbar in common misaligned positions, therefore significantly lowering overall resistance.

BarKlip® BK150's contacts include a stainless- steel helper spring to ensure that proper mating force is maintained and contact resistance is minimized throughout the life of the connection. Barklip® BK150 also features Amphenol ICC's proprietary silver-based plating technology, AGT®, to further reduce contact resistance and eliminate fretting corrosion commonly found in tin-plated connectors. Barklip® BK150 is ideal for applications in hyperscale computing architectures using busbars for power distribution.

- Up to 150A at 30°C temperature rise in still air
- 10 independent points of contact for low resistance and high reliability
- Optional grounding shield on the board connector
- Stainless steel helper spring ensures proper mating force and contact resistance
- AGT® plated contacts which helps eliminate fretting corrosion

FEATURES

- 10 independent points of contact
- AGT® plating technology
- Solder tab or screw mount option available
- Low-halogen housing
- High temperature thermoplastic housing



TARGET MARKETS



BENEFITS

- Offers low resistance and high reliability
- Eliminates fretting corrosion
- Enables termination flexibility
- Meets JEDEC JS709 Electronic Industry Standard
- Wide operating temperature range from -40°C to +105°C

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic, UL 94 V-0, Black
- Terminal: High conductivity copper alloy
- Contact Area: AGT® plating over nickel

MECHANICAL PERFORMANCE

- Contact Wipe Distance: 3.50mm
- Durability: 50 mating cycles
- Mating Force: 40N max.
- Unmating Force: 12.50N max.

ELECTRICAL PERFORMANCE

- Current Rating:
 - Up to 150A (30°C temperature rise in still air)
- Operating Voltage: 48V
- Dielectric Withstanding Voltage: 1000V
- Insulation Resistance: 5000M
- Contact Resistance: 0.20m max.

ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C
- RoHS: This product is compatible according to the European Union Directive 2011/65/EU

SPECIFICATIONS

- Product Specification: GS-12-1179
- Application Specification: GS-20-0396

APPROVALS AND CERTIFICATIONS

- UL E66906

PACKAGING

- Trays

TARGET MARKETS/APPLICATIONS



AC/DC pluggable power supplies
Networking equipment
Switches



Server
Storage equipment



Hyperscale computing architectures
using busbars for power distribution

PART NUMBERS

| Description | Part Numbers |
|---------------------------------|--------------|
| BarKlip® BK150 with solder tab | 10125600 |
| BarKlip® BK150 with screw mount | 10125595 |

Mouser Electronics

Authorized Distributor

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