

PwrBlade® MiniMezz Connector Series

LOWEST PROFILE HYBRID MEZZANINE CONNECTORS

The PwrBlade® Mini connector series introduces enhanced features to our existing PwrBlade® products in a smaller profile. PwrBlade® MiniMezz is available in stack heights ranging from 8mm – 20mm with options for power and signal contacts. It also has blind-mate guides that allow for $\pm 0.80\text{mm}$ of gatherability for blind-mate applications. PwrBlade® MiniMezz will have press-fit tail or solder tail terminations available. PwrBlade® Mini will also have options for board-to-board and cable-to-board configurations coming soon.

- The lowest profile power and signal mezzanine connectors available
- Modular tooling to accommodate wide range of application requirements
- 8mm – 20mm stack height combinations, tooled in 1mm increments
- Solder-tail or press-fit terminations
- High blind-mate gather ability of $\pm 0.8\text{mm}$



TARGET MARKETS



FEATURES

- Power and signal hybrid connectors
- Modular tooling design
- Mezzanine stack heights from 8mm – 20mm
- High power and low power contacts based on proven PwrBlade® technology
- Patented GCS® plating for power contacts, GXT® for signal contacts
- Solder-tail or press-fit tail board termination
- Built in blind-mate guide posts

BENEFITS

- Supports wide range of current rating and voltage requirements
- Limitless combinations of high power + low power + signal contacts
- Tooled in 1mm increments to fit low profile requirements
- Higher current density in space constrained applications
- Lower contact resistance
- Termination flexibility for different PCB layouts
- $\pm 0.8\text{mm}$ of gather ability for blind mate applications

TECHNICAL INFORMATION

MATERIAL

- Power Contacts: Copper Alloy
- Signal Contacts: Copper Alloy
- Housing: High temperature thermoplastic, UL 94V-0 compliant

MECHANICAL PERFORMANCE

- Mating/Un-mating Force: Mating force shall not exceed 20N and un-mating force shall not be less than 3.0N
- Durability: 200 mating cycles

ELECTRICAL PERFORMANCE

- Power Contacts:
 - Up to 45A/Contact (30°C temperature-rise over ambient, still air)
- Operating Voltage Rating:
 - High Power on 2.0mm pitch: 45VDC
- Dielectric Withstanding Voltage:
 - Power Contacts: 1000VDC
- Contact Resistance:
 - End-of-life contact resistance of 1.0mΩ

ENVIRONMENTAL

- Operating Temperature Range: -55°C to +125°C

APPROVALS & CERTIFICATION

- UL Approved
- EIA 364
- UL94V-0 Flammability

PACKAGING

- Trays

SPECIFICATIONS

- Product Specification: GS-12-1682
- Application Specification: GS-20-0686

TARGET MARKETS/APPLICATIONS



EV Charging



Telecom



Server/Storage Applications
IT&D



Industrial and Automation
ESS/UPS