



MicroTCA Power Input

FCI, a leading supplier of connectors and interconnect systems, offers D-Subminiature 7W2 connector options to enable 48V or 60V DC input connections to power modules used in MicroTCA™ shelves. Each power contact provides 24A current-carrying capacity. The shielded connectors are designed to fit the power module faceplate on the front side of a power module made in accordance with MicroTCA specifications.

FCI can provide the board-mount connectors, cable connectors, accessories, and cable assemblies needed for power input feeds to MicroTCA power modules. The board-mount connectors, available in single port or dual-stacked configurations for redundant input feeds, have the most compact footprint on the market, providing more space on the board for routing supplementary traces or placing additional components.

The board-mount connector offering includes through-hole options suitable for wave soldering or Pin-in-Paste (PiP) reflow soldering. PiP processing technology enables through-hole components to be soldered using conventional reflow soldering processes, which can result in lower applied costs by eliminating the need for a separate wave soldering operation in the process flow.

Designers can also choose between a cable connector having two standard solder bucket signal contacts or a version having a pre-installed shunt on the signal contacts used for First Mate Last Break (FMLB) functionality for lower applied cost. Power contacts are offered in both solder bucket and crimp versions for cable termination.

All MicroTCA power module input connectors meet the RoHS European Directive EU 2002/95/EC.



FEATURES

- › Support for 48V or 60V DC input at 24A (shell size A)
- › First Mate Last Break (FMLB) design
- › Single or dual-stacked board-mount versions available
- › Compact connector PCB footprint for efficient utilization of board space
- › Solder-to-board and Pin-in-Paste (PiP) versions for through-hole reflow solder termination
- › PiP versions are pick-and-place compatible
- › Full grounding connection from shelf to PCB
- › Threaded screw-locks and thumbscrews secure cable ends and withstand accidental unmating
- › Cable ends are field repairable
- › Touch-proof design on cable connector
- › Cable hoods can be stacked side-by-side
- › Cost saving option for shunt between signal contacts on cable connector