

MINI PCI EXPRESS CARD CONNECTOR

OVERVIEW

FCI's new released PCIe Mini card features 0.8mm pitch, 52-pin configuration with varying heights available.

The connector offers angled insertions of PC boards and supports PCIe Gen2, SATA 2.0 as well as USB 2.0 applications. FCI's PCIe Mini Cards are also PCI-SIG standard compliant. Target markets include mainly (but not limited to) the consumer and data / communication market, with applications in tablets, laptops, ultrabooks and desktops, offering design flexibility and small form-factor features for high-speed, high-performance communication devices such as the 802.11x wireless adapters, Bluetooth interfaces, Ethernet adapters and modems. The PCIe Mini Card is also used for server applications.



FEATURES & BENEFITS

- 0.8mm pitch, 52 positions
- Connector height from 2.1 mm to 10.6mm are available
- Angled insertion of PCB
- Supports PCIe Gen 2, SATA 2.0, USB 2.0
- PCI-SIG standard compliance

TARGET MARKETS / APPLICATIONS

- Laptop
- Ultrabooks
- Tablets
- Desktop
- Server



TECHNICAL INFORMATION

MATERIALS

- Housing: High temperature thermoplastic
- Contact: Copper alloy
- Peg: Copper alloy
- Plating: Au over Ni

ELECTRICAL PERFORMANCE

- Voltage rating: 50 VAC rms
- Current rating: 0.5 A max.
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 300 VAC max.
- Low level contact resistance: 55 mΩ max.

ENVIRONMENTAL

- Temperature life: 105 °C for 120 hours
- Thermal shock: -55°C to 85 °C, 10 cycles

PART NUMBERS

Height	Base Number
4.0mm	10123824
5.2mm	10123825
5.6mm	10123908
8.0mm	10123909
10.6mm	10123912
4.5mm	10123913
6.8mm	10123914
2.1mm	10123916
2.35mm	10123917
7.0mm	10123919
9.9mm	10123920
9.2mm	10123921

Please refer to customer drawing for part number schematic

MECHANICAL PERFORMANCE

- Mini card mating force: 22.5 N (2.3 Kgf) max.
- Durability: 50 cycles

SPECIFICATIONS

- Product specification: GS-12-006

APPROVALS AND CERTIFICATIONS

- NA

PACKAGING

- Tape and reel