#### FEATURES AND SPECIFICATIONS

Molex's PCI Express\* connector offers greater signaling bandwidths for today's workstation and server applications

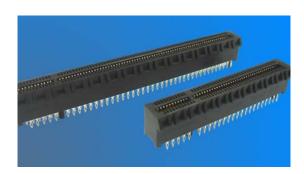
PCI Express is a third generation I/O architecture. PCI-SIG\* recently updated PCI Express specifications to greater signaling bandwidth. Unlike the previous version in which the PCI bus is implemented via a multi-drop parallel architecture, PCI Express now incorporates a point-to-point signaling using differential pairs operating at 2.5 Gbps. PCI Express provides adequate bandwidth to support developing I/O such as Infiniband and 10G fiber channel.

Molex's press fit version of PCI Express provides an alternative for customers who require solderless termination on PCBs which have a high layer count.

All Molex PCI Express connectors are compliant with PCI-SIG\* specifications. For more information on these specifications please see www.pcisig.com



# **78028**Vertical Press fit



#### Features and Benefits

- High-temperature thermoplastic housing for lead-free processing
- Keying design ensures correct mating of card module to edge card connector
- Press fit termination allows solderless termination on high layer count PCBs
- Complies with PCI-SIG industry specifications ensure connectors support all PCI Express module cards available in the market
- Ridge design will be compatible with module cards that require a retention clip for secure retention

### **SPECIFICATIONS**

Reference Information Packaging: Tray UL File No.: Pending CSA File No.: Pending

Mates With: PCI Express®\* module card

Designed In: mm

Electrical

Voltage: 50 Volts AC (RMS)/DC Current: 1.1 Amps/pin

Contact Resistance: 30 milliohms max Dielectric Withstanding Voltage: 500V AC Insulation Resistance: 1000 Megohms min Mechanical

Max Terminal Retention Force: 2.94 N min/Terminal

Mating Force: 1.15 N max/contact pair Un-Mating Force: 0.15 N min/contact pair

Durability: 50 Cycles

**Physical** 

Housing: High Temperature Nylon, Black, UL 94V-0

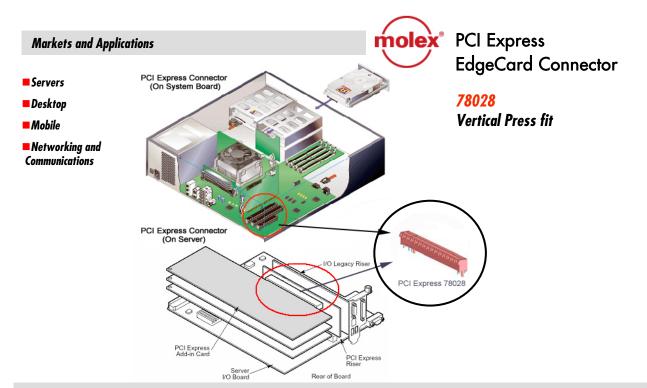
Contact: Copper Alloy

Plating:

Contact Area — 0.76 µm Gold or 0.38 µm Gold

Solder Tail Area — Tin Underplating — Nickel PCB Thickness: See Ordering Tables Operating Temperature: - 55°C to +85°C





## **Ordering Information**

Lead Free Order Number	Circuits	Plating Thickness	PC Tail Length	Recommended PCB Thickness
78028-0008	98	0.76µm (30µ")	2.54mm (.100")	2.3mm (.090")
78028-0108			2.79mm (.110")	2.6mm (.100")
78028-1108			3.43mm (135")	3.2mm (.125")
78028-0018		0.38µm (15µ")	2.54mm (.100")	2.3mm (.090")
78028-0118			2.79mm (.110")	2.6mm (.100")
78028-1118			3.43mm (135")	3.2mm (.125")
78028-0016	- 164	0.76µm (30µ")	2.54mm (.100")	2.3mm (.090")
78028-0116			2.79mm (.110")	2.6mm (.100")
78028-1116			3.43mm (135")	3.2mm (.125")
78028-0026		0.38µm (15µ")	2.54mm (.100")	2.3mm (.090")
78028-0126			2.79mm (.110")	2.6mm (.100")
78028-1126			3.43mm (135")	3.2mm (.125")

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