

## PCI EXPRESS, MINI PCI EXPRESS & MINI PCI 1.00mm & 0.8mm CARD EDGE CONNECTOR PCIE SERIES

### INTRODUCTION:

Adam Tech's wide range of PCI Express, Mini PCI Express & Mini PCI connectors provide a low cost, highly scalable, general-purpose serial I/O interconnect that provides a unifying standard for a number of I/O solutions within one platform. They are typically used in high-speed serial link technology applications similar to that found in Gigabit Ethernet, Serial ATA (SATA), and Serial-Attached SCSI (SAS). The 36P version supports a single PCI express lane and can be used to replace standard PCI connectors. Our higher bandwidth 4 & 8 lane versions are ideal to use in many server applications.

### FEATURES:

- Durable Long Life cycle contacts
- High Pressure Contacts for Low Level Circuits
- Hot plug and hot swap enabled
- Rated to run at up to 2.5Gbps
- Supports 2.5Gbps data transfer and scalable for future bandwidth increases.
- Available in x1, x4, x8, and x16 lane configurations
- Coexists with standard PCI

### MATING PC BOARDS:

All printed circuit boards with a thickness of .062" to .072"

### SPECIFICATIONS:

#### Material:

Standard insulator: PPS, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Dark Brown (Black optional)  
 Contacts: Phosphor Bronze

#### Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

#### Electrical:

Operating voltage: 125V AC max.  
 Current rating: 3 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 1000 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion force: 7 oz max.  
 Withdrawal force: 0.9 oz min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic trays

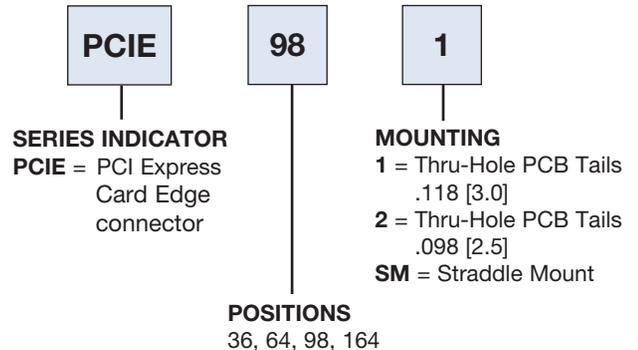
#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

**HI-TEMP  
INSULATOR  
AVAILABLE**



### ORDERING INFORMATION PCI EXPRESS



### ORDERING INFORMATION MINI PCI EXPRESS

See pg. 152 for Available Types

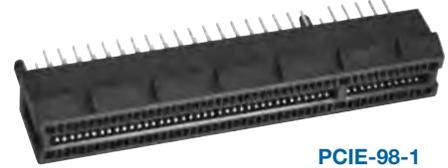
### MINI PCI

See pg. 153 for Available Types

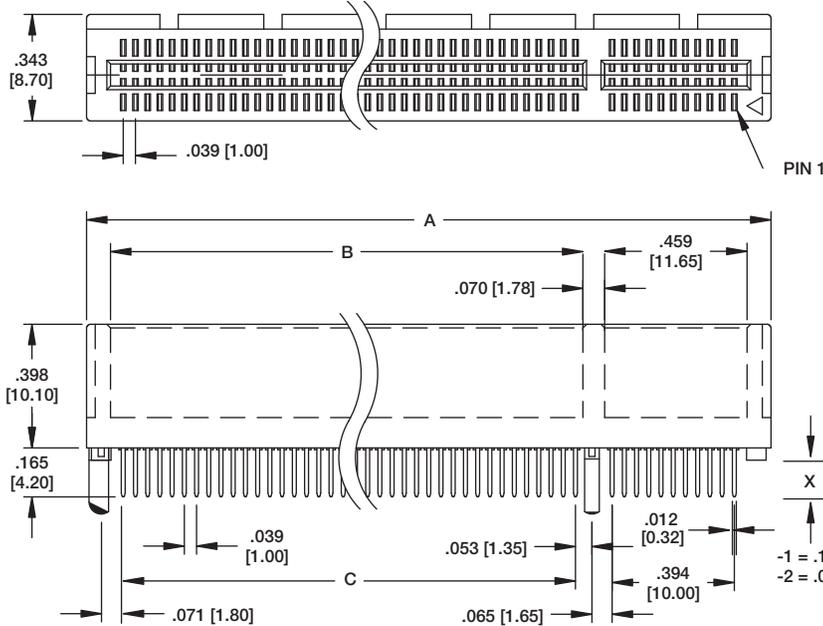
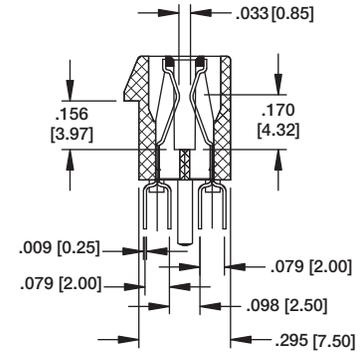
#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**WT** = White color insulation  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

#### PCI EXPRESS THRU HOLE PCB MOUNT



**PCIE-98-1**



PART NO. & POSITIONS	DIMENSIONS			
	A	B	C	D
PCIE-36-1	.984 [25.00]	.301 [7.65]	.236 [6.00]	.321 [8.15]
PCIE-64-1	1.535 [39.00]	.852 [21.65]	.787 [20.00]	.872 [22.15]
PCIE-98-1	2.205 [56.00]	1.522 [38.65]	1.457 [37.00]	1.541 [39.15]
PCIE-164-1	3.504 [89.00]	2.821 [71.65]	2.756 [70.00]	2.840 [72.15]

\* Available in Straddle Mount

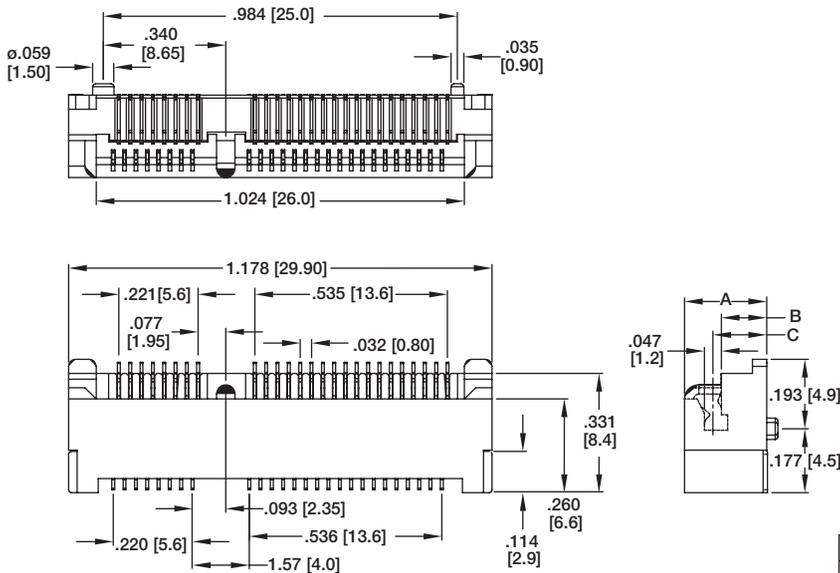
#### MINI PCI EXPRESS SURFACE MOUNT



**MPE-52-R-SMT-3.8**



**MPE-52-R-SMT-9.0**



PART NUMBER	DIM A	DIM B	DIM C
MPE-52-R-SMT-5.2-TR	5.20	2.80	3.20
MPE-52-R-SMT-5.6-TR	5.60	3.20	3.80
MPE-52-R-SMT-6.8-TR	6.80	4.40	4.90
MPE-52-R-SMT-8.0-TR	8.00	5.60	6.10
MPE-52-R-SMT-9.2-TR	9.20	6.80	7.30