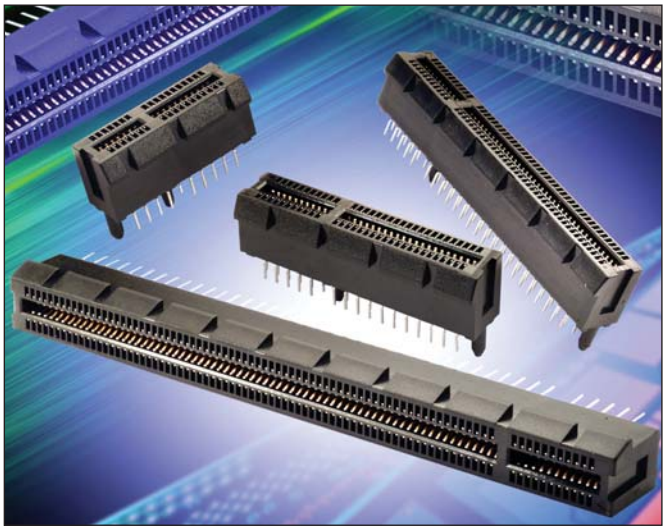
6325 PCI Express Card Edge Connectors



GENERAL DESCRIPTION

The standard vertical card edge connectors are specifically designed to implement PCI Express technology for desktop PCs and server systems. These connectors allow the end user to upgrade the PC with an “add on graphics card”. Therefore complete range is available to support basic speed x1 to high-speed x16 bandwidth requirements.

The connectors are available in 36(x1), 64(x4), 98(x8) and 164(x16) contact positions, all in a 1.00mm pitch. Therefore each range can support different bandwidth requirements for an “add on” graphics card.

These connectors are ideal for use in a broad range of computing/data communication applications, including desktop PCs, Servers and Workstations.

All connectors support PCI Express signal and Power requirements as well as the interface between system board and the add on card specification.

FEATURES/BENEFITS

- Different tail (contact) length (2.3mm or 3.00mm) available to support differing motherboard thickness.
- Tails are offset to form 4 rows on a 2.00mm pitch, thus making wave soldering easier.
- All connectors come with locating bosses to help align the connector to PCB (motherboard).
- Raised ridge at the topside of the connector, which can be used to lock/retain the graphic card.
- Molded polarization key prevents improper insertion of the PCB.
- Connectors have slots to accept “add in” cards with thickness of 1.58mm (0.062in).
- Conforms to PCI Express specification on connectors.
- Available in black or white color.

TECNICAL SPECIFICATIONS

Current Rating: 1.1 Ampere, maximum
Contact Resistance: 30 milliohm, maximum
Contact Material: Phosphor Bronze
Contact Plating: See table below
Insulator Material: 30% Glass Filled Nylon
Insulation Resistance: 100 Megaohms 50 50V AC

Plating Table

Code	Contact Area	Terminal Area
6	15µ" AuNi (0.38µM)	Tin

APPLICATIONS

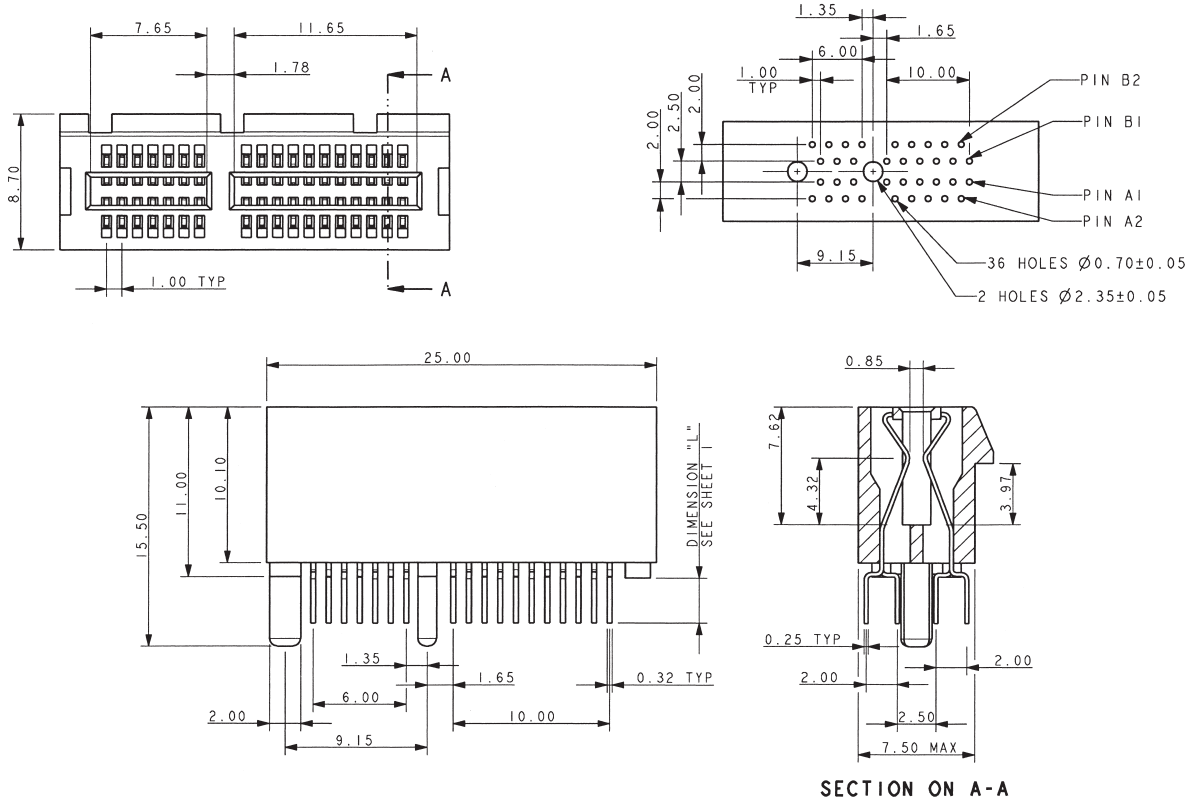
- Desktop PCs
- Servers
- Work Stations
- Factory Automation Systems

HOW TO ORDER

20	6325	098	0 02	00 6
Connector	**Series**	**Number of Contacts**	**Color** 0 = Black 1 = White **Tail Length** 1 = 2.30mm 2 = 3.00mm	**Variation** 00 = Standard 01 = Latch (164 only) **Plating** 6 = Tin

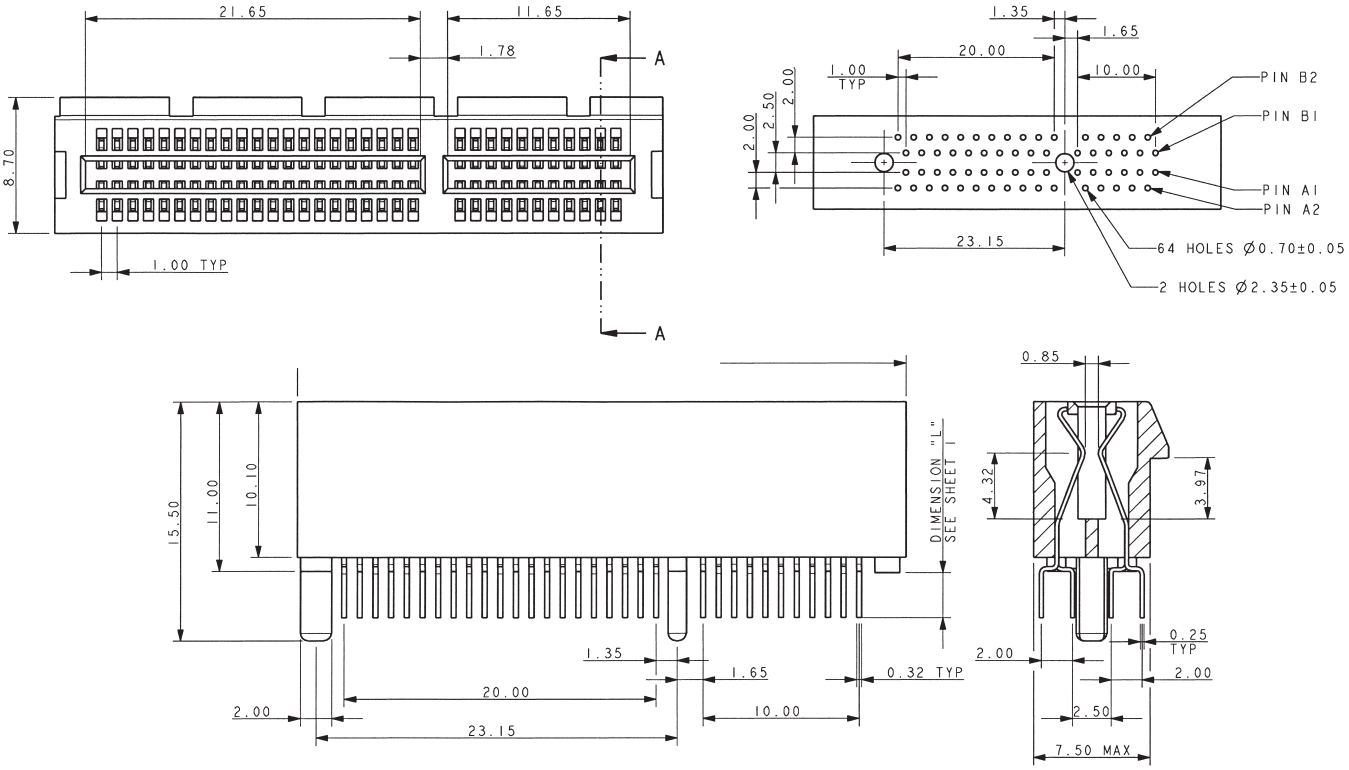
6325 PCI Express Card Edge Connectors

36 WAY CONNECTOR



SECTION ON A-A

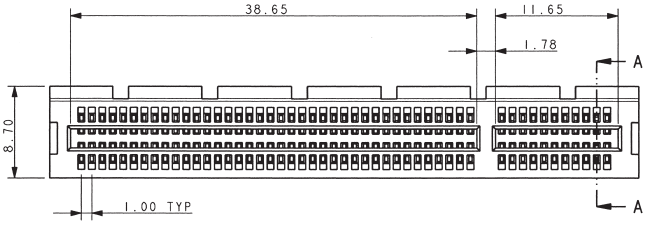
64 WAY CONNECTOR

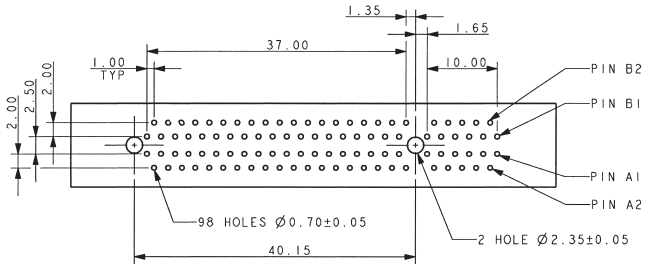


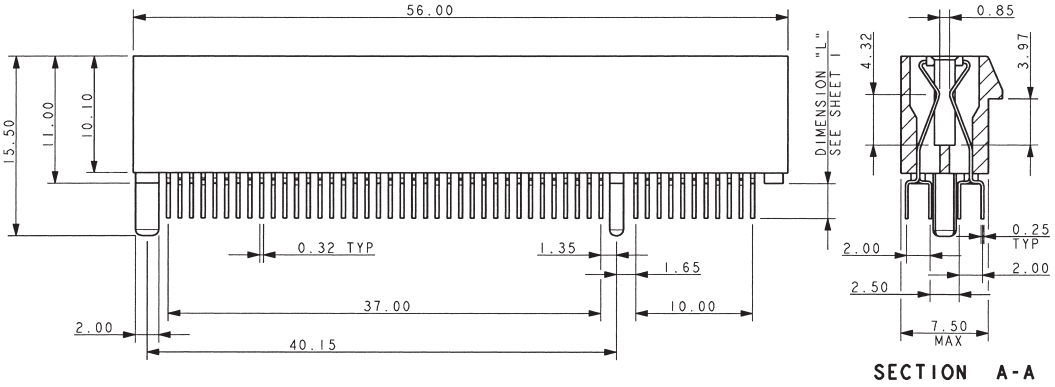
SECTION A-A

6325 PCI Express Card Edge Connectors

98 WAY CONNECTOR

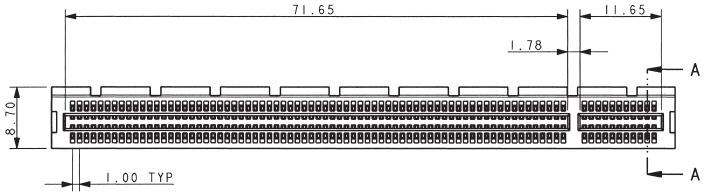


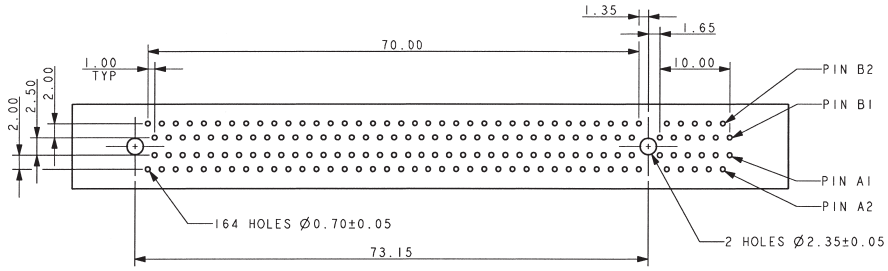


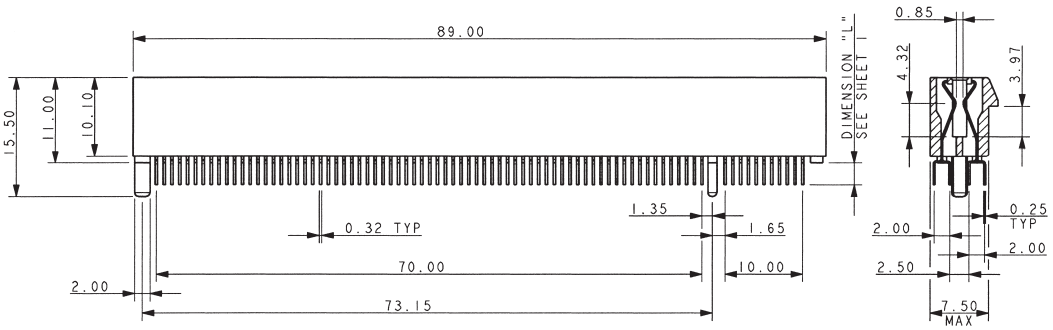


SECTION A-A

164 WAY CONNECTOR



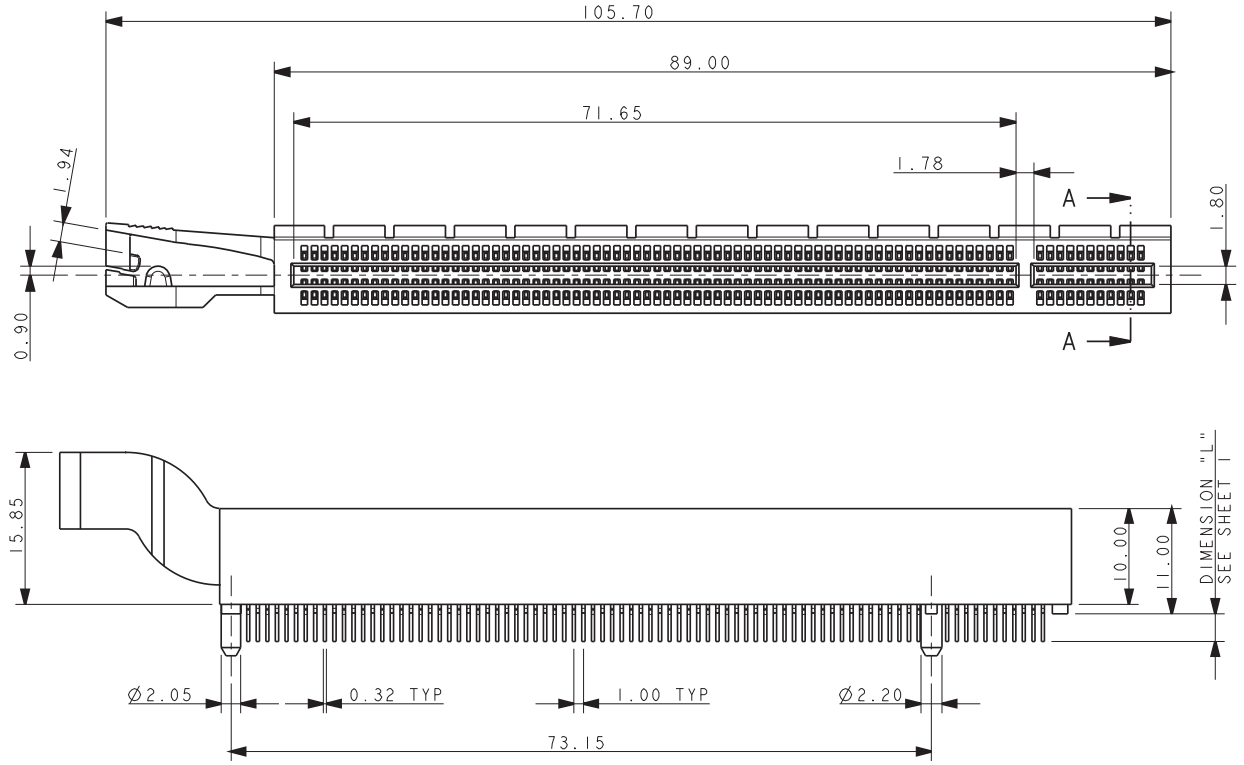


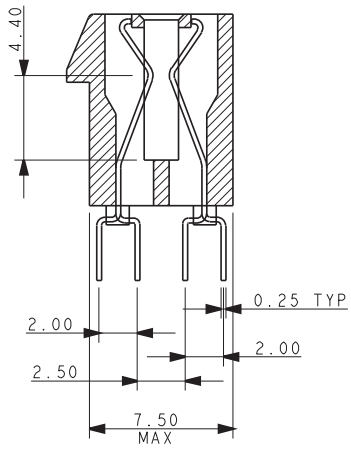


SECTION A-A

6325 PCI Express Card Edge Connectors

164 WAY CONNECTOR WITH LATCH



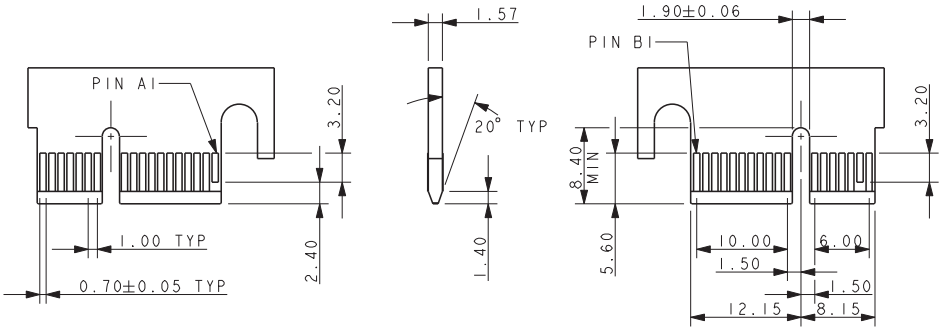


SECTION ON A-A

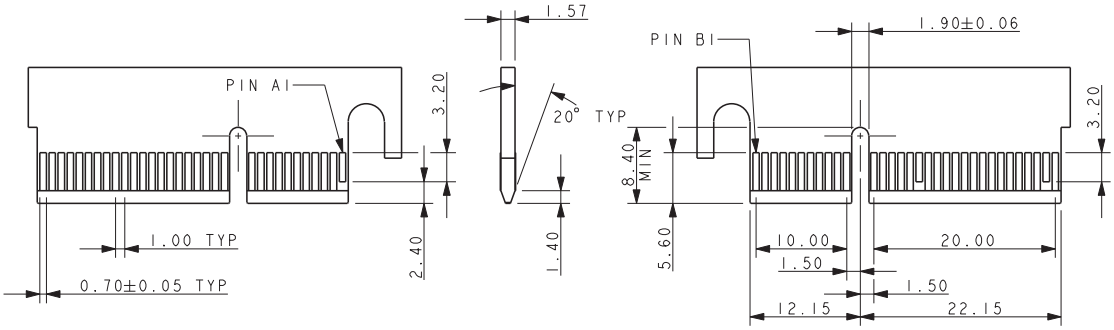
6325 PCI Express Card Edge Connectors

SUGGESTED PCB LAYOUT - PCB EDGE

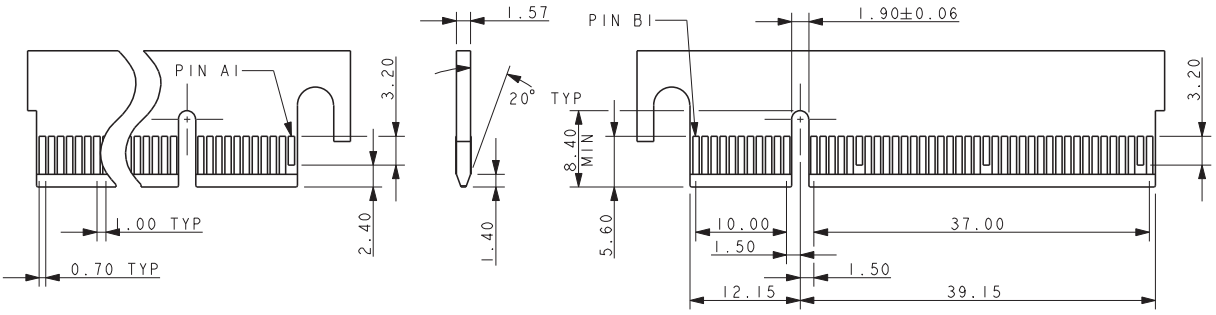
36 WAY CONNECTOR



64 WAY CONNECTOR

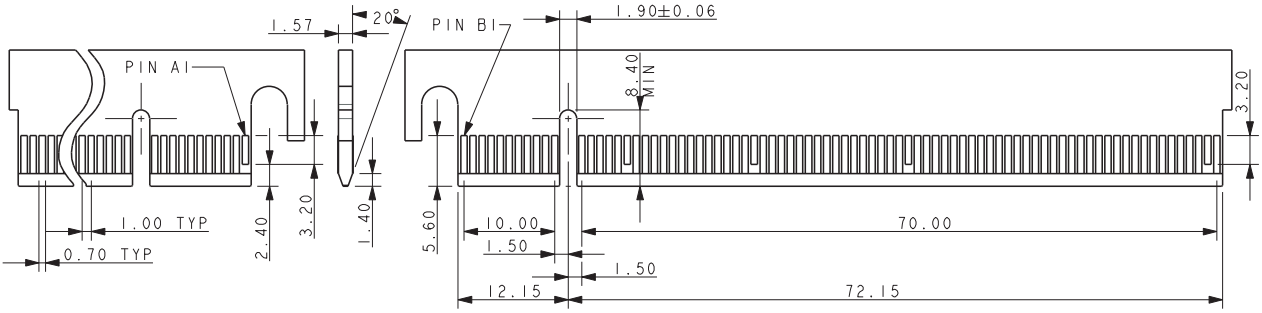


98 WAY CONNECTOR



164 WAY CONNECTOR

(EDGE PROFILE OF PCB AS CENTER VIEW FOR 36 WAY CONNECTOR)



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