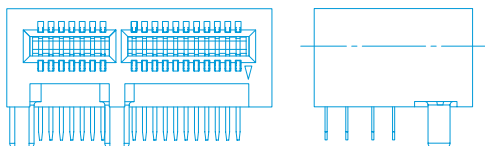
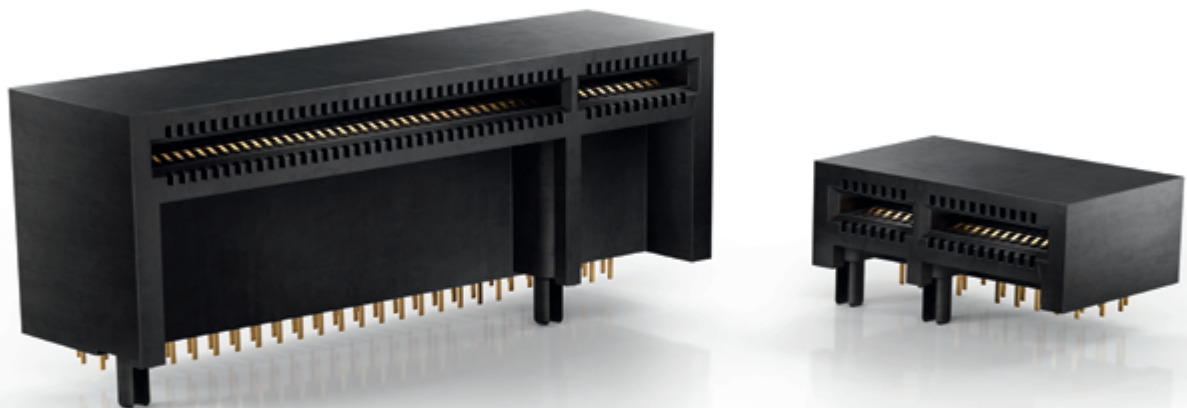


PCI Express

Right Angle Connectors



Original Size PCI Express Right Angle Connector

PCI Express - Right Angle Connectors

DESCRIPTION

TECHNICAL DETAILS

Pitch	1.0 mm
No of Pins	X1=36, X4=64, X8=98, X16=164, X24=230
Termination	Solder
Terminal Length	2.54 mm, 3.18 mm
Impedance	85 Ohm, 100 Ohm
Packaging	Tray packaging for automatic assembly
Variants	Right Angle Connectors 3 different stack heights
Standard	Meets all PCIe Local Bus Standards Rev. 2.0



Stack Heights:
5.84 mm
11.18 mm
16.69 mm

PCI Express - Right Angle Connectors

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TECHNICAL DATA

Description	Standard	Right Angle Edge Card Connectors
Number of Pins		X1=36, X4=64, X8=98, X16=164, X24=230
Temperature range		-40 to +105 °C
Current rating per contact		1.1 A continuous
Voltage rating		max. 300 V
Dielectric strength		>500 VAC at 60 Hz
Conductor resistance		< 40 mΩ
Insulation resistance		>1 x 10 ⁹ MΩ at 500 VDC
Capacitance at 1 kHz		As advertised
Inductance at 10 kHz		As advertised
Impedance		85 Ω or 100 Ω
Crosstalk		Next >30 dB at 2.0 GHz
Propagation delay		As advertised
Insertion loss (for stack height 5.84 mm)		<1 dB at 1.0 GHz <3 dB at 2.5 GHz
Return loss (for stack height 5.84 mm)		>12 dB at 1.25 GHz >7 dB at 1.5 GHz >4 dB at 2.0 GHz

Processing Conditions

Dip soldering temperature max.	IEC 68-2-20	10 s at 260 °C
Reflow soldering temperature max.	JEDEC J-STD-020	20 - 90 s at 260 °C

PCI Express - Right Angle Connectors

ELECTRICAL AND MECHANICAL CHARACTERISTICS

Description	Standard	Right Angle Edge Card Connectors
Housing Material		
Plastic material		LCP 30% glass-filled
UL flame rating		UL 94 V-0
Contact Material		
Base material		Cu alloy
Mating area		gold plating
Termination area		gold plating
Environment Compatibility		
Recycling		no flame-retardent additives, no toxic additives allow easy recycling

PCI Express - Right Angle Connectors

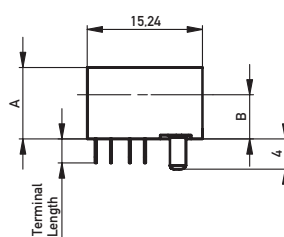
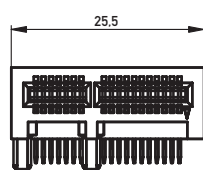
X1 LINK WIDTH, 36 PIN

PRODUCT SPECIFICATION

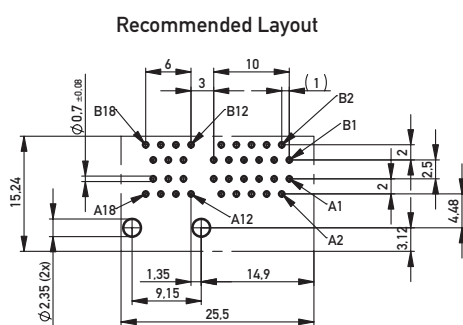


- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

DIMENSIONAL DRAWINGS



16.69	20.30
11.18	14.70
5.84	9.40
Assembly Stack Height	A



PCI Express - Right Angle Connectors

X1 LINK WIDTH, 36 PIN

ORDERING INFORMATION

Assembly Stack Height (mm)	Terminal Length (mm)	Impedance (Ω)	Contact Plating	Part Number
5.84	2.54	100	min. 0.127 μ m Au	009000
5.84	3.18	100	min. 0.127 μ m Au	009020
5.84	2.54	100	min. 0.8 μ m Au	009040
5.84	3.18	100	min. 0.8 μ m Au	009060
5.84	2.54	85	min. 0.127 μ m Au	009101
5.84	3.18	85	min. 0.127 μ m Au	009301
5.84	2.54	85	min. 0.8 μ m Au	009201
5.84	3.18	85	min. 0.8 μ m Au	009401
11.18	2.54	100	min. 0.127 μ m Au	009001
11.18	3.18	100	min. 0.127 μ m Au	009021
11.18	2.54	100	min. 0.8 μ m Au	009041
11.18	3.18	100	min. 0.8 μ m Au	009061
11.18	2.54	85	min. 0.127 μ m Au	009501
11.18	3.18	85	min. 0.127 μ m Au	009701
11.18	2.54	85	min. 0.8 μ m Au	009601
11.18	3.18	85	min. 0.8 μ m Au	009801
16.69	2.54	100	min. 0.127 μ m Au	009002
16.69	3.18	100	min. 0.127 μ m Au	009022
16.69	2.54	100	min. 0.8 μ m Au	009042
16.69	3.18	100	min. 0.8 μ m Au	009062

PCI Express - Right Angle Connectors

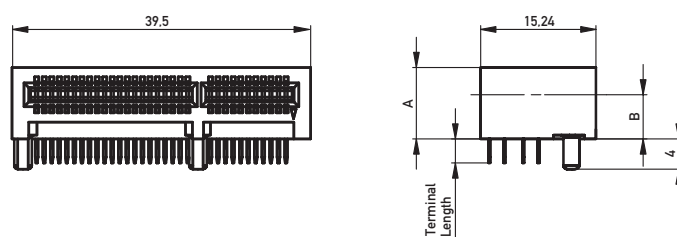
X4 LINK WIDTH, 64 PIN

PRODUCT SPECIFICATION



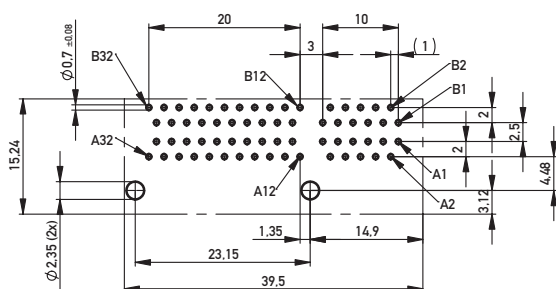
- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

DIMENSIONAL DRAWINGS



16.69	20.30
11.18	14.70
5.84	9.40
Assembly Stack Height	A

Recommended Layout



PCI Express - Right Angle Connectors

X4 LINK WIDTH, 64 PIN

ORDERING INFORMATION

Assembly Stack Height (mm)	Terminal Length (mm)	Impedance (Ω)	Contact Plating	Part Number
5.84	2.54	100	min. 0.127 μ m Au	009003
5.84	3.18	100	min. 0.127 μ m Au	009023
5.84	2.54	100	min. 0.8 μ m Au	009043
5.84	3.18	100	min. 0.8 μ m Au	009063
5.84	2.54	85	min. 0.127 μ m Au	009104
5.84	3.18	85	min. 0.127 μ m Au	009304
5.84	2.54	85	min. 0.8 μ m Au	009204
5.84	3.18	85	min. 0.8 μ m Au	009404
11.18	2.54	100	min. 0.127 μ m Au	009004
11.18	3.18	100	min. 0.127 μ m Au	009024
11.18	2.54	100	min. 0.8 μ m Au	009044
11.18	3.18	100	min. 0.8 μ m Au	009064
11.18	2.54	85	min. 0.127 μ m Au	009504
11.18	3.18	85	min. 0.127 μ m Au	009704
11.18	2.54	85	min. 0.8 μ m Au	009604
11.18	3.18	85	min. 0.8 μ m Au	009804
16.69	2.54	100	min. 0.127 μ m Au	009005
16.69	3.18	100	min. 0.127 μ m Au	009025
16.69	2.54	100	min. 0.8 μ m Au	009045
16.69	3.18	100	min. 0.8 μ m Au	009065

PCI Express - Right Angle Connectors

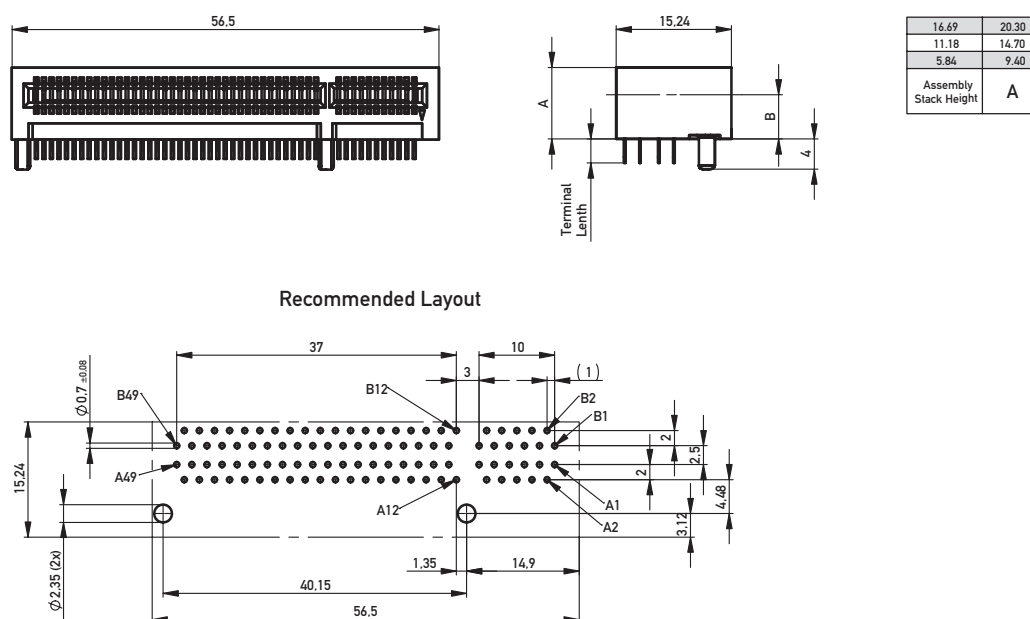
X8 LINK WIDTH, 98 PIN

PRODUCT SPECIFICATION



- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

DIMENSIONAL DRAWINGS



PCI Express - Right Angle Connectors

X8 LINK WIDTH, 94 PIN

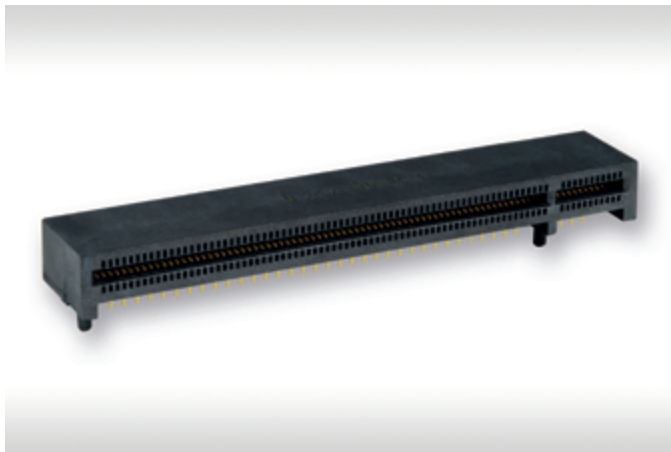
ORDERING INFORMATION

Assembly Stack Height (mm)	Terminal Length (mm)	Impedance (Ω)	Contact Plating	Part Number
5.84	2.54	100	min. 0.127 μ m Au	009006
5.84	3.18	100	min. 0.127 μ m Au	009026
5.84	2.54	100	min. 0.8 μ m Au	009046
5.84	3.18	100	min. 0.8 μ m Au	009066
5.84	2.54	85	min. 0.127 μ m Au	009108
5.84	3.18	85	min. 0.127 μ m Au	009308
5.84	2.54	85	min. 0.8 μ m Au	009208
5.84	3.18	85	min. 0.8 μ m Au	009408
11.18	2.54	100	min. 0.127 μ m Au	009007
11.18	3.18	100	min. 0.127 μ m Au	009027
11.18	2.54	100	min. 0.8 μ m Au	009047
11.18	3.18	100	min. 0.8 μ m Au	009067
11.18	2.54	85	min. 0.127 μ m Au	009508
11.18	3.18	85	min. 0.127 μ m Au	009708
11.18	2.54	85	min. 0.8 μ m Au	009608
11.18	3.18	85	min. 0.8 μ m Au	009808
16.69	2.54	100	min. 0.127 μ m Au	009008
16.69	3.18	100	min. 0.127 μ m Au	009028
16.69	2.54	100	min. 0.8 μ m Au	009048
16.69	3.18	100	min. 0.8 μ m Au	009068

PCI Express - Right Angle Connectors

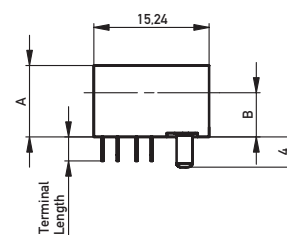
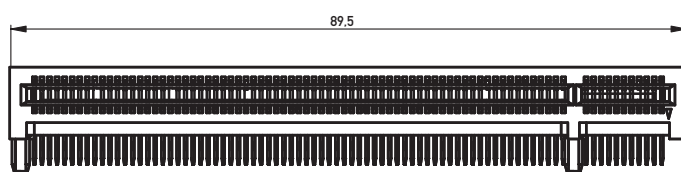
X16 LINK WIDTH, 164 PIN

PRODUCT SPECIFICATION



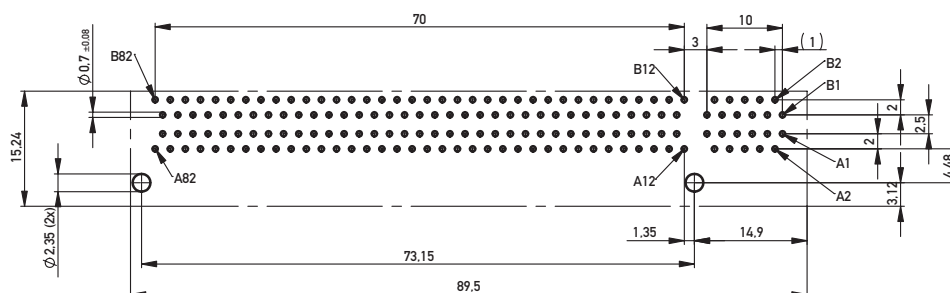
- Solder termination
- 85 Ohm and 100 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

DIMENSIONAL DRAWINGS



16.69	20.30
11.18	14.70
5.84	9.40
Assembly Stack Height	A

Recommended Layout



PCI Express - Right Angle Connectors

X16 LINK WIDTH, 164 PIN

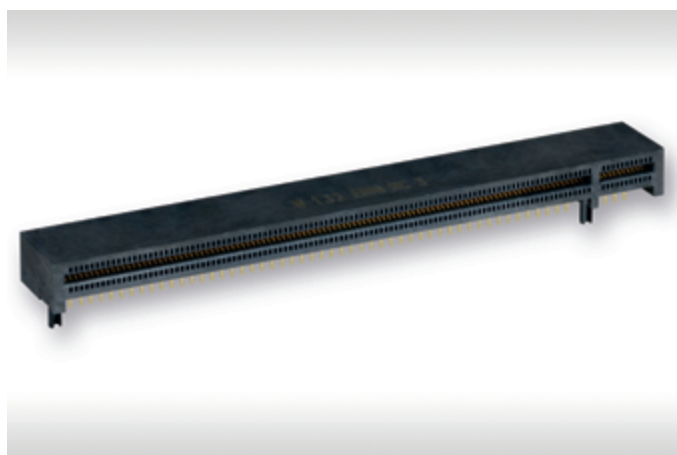
ORDERING INFORMATION

Assembly Stack Height (mm)	Terminal Length (mm)	Impedance (Ω)	Contact Plating	Part Number
5.84	2.54	100	min. 0.127 μ m Au	009009
5.84	3.18	100	min. 0.127 μ m Au	009029
5.84	2.54	100	min. 0.8 μ m Au	009049
5.84	3.18	100	min. 0.8 μ m Au	009069
5.84	2.54	85	min. 0.127 μ m Au	009116
5.84	3.18	85	min. 0.127 μ m Au	009316
5.84	2.54	85	min. 0.8 μ m Au	009216
5.84	3.18	85	min. 0.8 μ m Au	009416
11.18	2.54	100	min. 0.127 μ m Au	009010
11.18	3.18	100	min. 0.127 μ m Au	009030
11.18	2.54	100	min. 0.8 μ m Au	009012
11.18	3.18	100	min. 0.8 μ m Au	009070
11.18	2.54	85	min. 0.127 μ m Au	009516
11.18	3.18	85	min. 0.127 μ m Au	009716
11.18	2.54	85	min. 0.8 μ m Au	009616
11.18	3.18	85	min. 0.8 μ m Au	009816
16.69	2.54	100	min. 0.127 μ m Au	009011
16.69	3.18	100	min. 0.127 μ m Au	009031
16.69	2.54	100	min. 0.8 μ m Au	009051
16.69	3.18	100	min. 0.8 μ m Au	009071

PCI Express - Right Angle Connectors

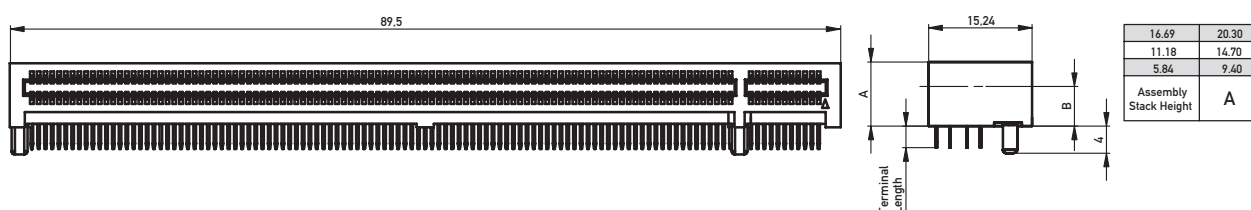
X24 LINK WIDTH, 230 PIN

PRODUCT SPECIFICATION

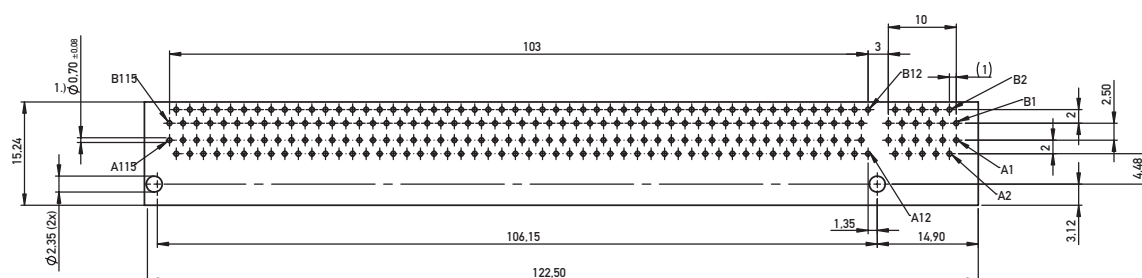


- Solder termination
- 85 Ohm versions
- The layout is arranged in a 4-row format with 1 mm staggered pitch
- Plastic cover protects connector from dust and debris
- Two locator pegs with interference fit to pcb for reliable processing
- Tray packaging for automatic assembly

DIMENSIONAL DRAWINGS



Recommended Layout



PCI Express - Right Angle Connectors

X24 LINK WIDTH, 230 PIN

ORDERING INFORMATION

Assembly Stack Height (mm)	Terminal Length (mm)	Impedance (Ω)	Contact Plating	Part Number
5.84	2.54	85	min. 0.127 μ m Au	009124
5.84	3.18	85	min. 0.127 μ m Au	009324
5.84	2.54	85	min. 0.8 μ m Au	009224
5.84	3.18	85	min. 0.8 μ m Au	009424
11.18	2.54	85	min. 0.127 μ m Au	009524
11.18	3.18	85	min. 0.127 μ m Au	009724
11.18	2.54	85	min. 0.8 μ m Au	009624
11.18	3.18	85	min. 0.8 μ m Au	009824

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PCI Express - Right Angle Connectors

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PCI Express - Right Angle Connectors

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