



TE Internal #: 4-2337939-4  
 Board-to-Board, 164 Position, 1 mm [.039 in] Centerline, Vertical,  
 Black, Signal, -40 – 85 °C [-40 – 185 °F], PCI & PCI Express  
 Connectors

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Connectors > PCB Connectors > Card Edge Connectors > PCI & PCI Express Connectors



Connector System: **Board-to-Board**

Number of Positions: **164**

PCI Generation: **4**

Centerline (Pitch): **1 mm [.039 in]**

Contact Mating Area Plating Material Thickness: **.38 µm [ 15 µin ]**

## Features

### Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Connector System	Board-to-Board
Sealable	No

### Configuration Features

Number of PCB Mount Retention Features	2
Number of Positions	164
PCB Mount Orientation	Vertical
Ejector	Without

### Body Features

Primary Product Color	Black
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### Contact Features

Contact Current Rating (Max)	1.1 A
Contact Underplating Material	Nickel
Contact Mating Area Plating Material	Gold (Au)
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.38 µm[15 µin]

### Termination Features



Termination Method to PCB	Surface Mount
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### Mechanical Attachment

Connector Mounting Type	Board Mount
PCB Mount Retention Type	SMT Hold-Down

### Housing Features

Centerline (Pitch)	1 mm [.039 in]
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### Dimensions

PCB Thickness (Accepted)	1.57 mm
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### Usage Conditions

Operating Temperature Range	-40 – 85 °C [-40 – 185 °F]
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### Operation/Application

Circuit Application	Signal
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### Industry Standards

Bus Type	PCI Express
PCI Generation	4

### Packaging Features

Packaging Method	Box & Tray
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts



TE Part # 5-2337939-4  
PCIE GEN4 CON,SMT,164POS,30u", MYLAR,HT



TE Part # 1734774-1  
PCI EXP 3.1L 36 POS WHT G/F

TE Part # 4-2358477-4  
PCIEG4,SMT,V,164POS,15u,ML,HT,SC

## Customers Also Bought



TE Part #1-2600021-5  
XRC SOCKET 16-18 AWG Gold Plated



TE Part #735187-2  
110 FASTON TAB TPBR



TE Part #1761609-7  
IDC LOW PRO HDR 20P RA SHT LAT



TE Part #3-2176339-7  
CRGCQ 0603 10K 1%




TE Part #2198235-2  
SFP+ Enhanced 1x6, SAN Heatsink



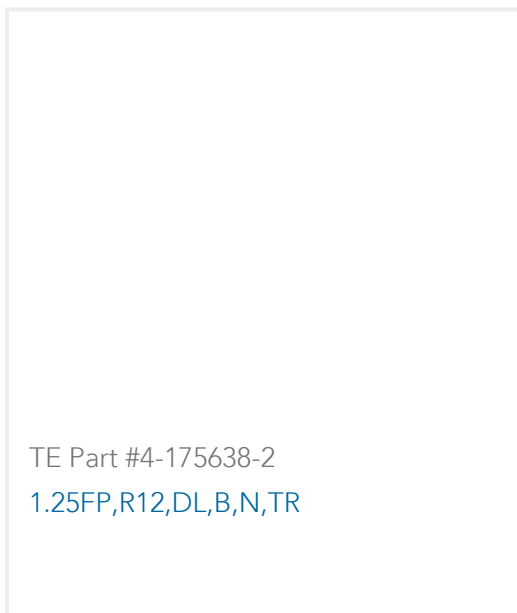
TE Part #4-2337939-6  
PCIE GEN4 CON,SMT,64POS,15u", MYLAR,ST



TE Part #3-6318490-6  
.5FHR04H,220,S,GIG,08/Sn,HT,NSYes



TE Part #3-6318491-6  
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes



## Documents

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2337939-4\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2337939-4\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-2337939-4\\_A.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Specifications

[AMP Mass-Termination "EI" Series Connector](#)

English

[Product Specification](#)

English

[Product Specification](#)

English

### Agency Approvals

[UL Report](#)

English

[UL Report](#)

English