

5650181-1 ✓ ACTIVE

AMP .050 Series

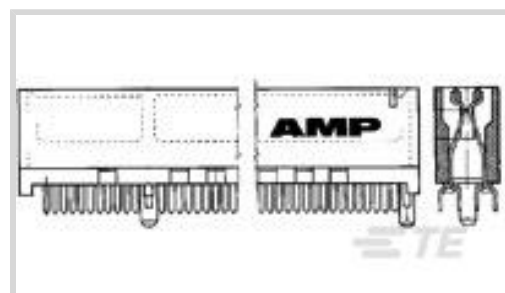
TE Internal #: 5650181-1

Standard Edge Connectors, Board-to-Board, 112 Position, .05 in [1.27 mm] Centerline, 56 Dual Positions, 2 Row, Brown, AMP .050 Series

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Connectors > PCB Connectors > Card Edge Connectors > Standard Edge Connectors



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

Number of Positions: **112**

Centerline (Pitch): **1.27 mm [ .05 in ]**

Number of Dual Positions: **56**

Number of Rows: **2**

### Features

#### Product Type Features

Connector System	Board-to-Board
Connector & Housing Type	Receptacle
Connector & Contact Terminates To	Printed Circuit Board

#### Configuration Features

Number of Positions	112
Number of Dual Positions	56
Number of Rows	2
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical

#### Electrical Characteristics

Operating Voltage	203 VAC
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#### Contact Features

PCB Contact Termination Area Plating Material Thickness	2.54 $\mu\text{m}$ [100 $\mu\text{in}$ ]
Contact Type	Socket
Contact Mating Area Plating Material Thickness	.76 $\mu\text{m}$
Contact Mating Area Plating Material	Gold
PCB Contact Termination Area Plating Material Finish	Bright
Contact Underplating Material	Nickel



PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1 A

#### Termination Features

Termination Post & Tail Length	3.56 mm[.14 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

#### Mechanical Attachment

Mating Retention	Without
Mating Alignment	Without
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Connector Mounting Type	Board Mount

#### Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Color	Brown
Housing Material	High Temperature Thermoplastic

#### Dimensions

Daughter Board Thickness	1.37 – 1.78 mm[.054 – .07 in]
Card Slot Depth	7.62 mm[.3 in]
Connector Height	13.97 mm[.55 in]

#### Usage Conditions

Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
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#### Operation/Application

Circuit Application	Signal
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#### Packaging Features

Packaging Method	Box
Packaging Quantity	35

#### Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
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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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

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 # 5145154-1  
CONNECTOR, 60 DUAL POSITION, .

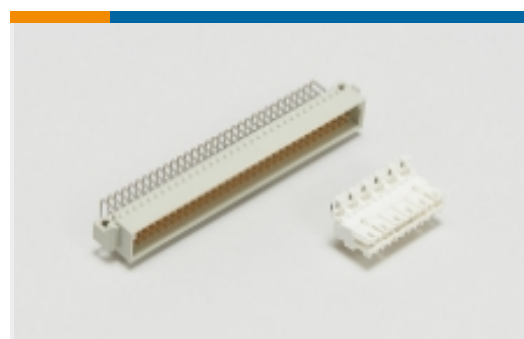


TE Part # 5-2337939-4  
PCIE GEN4 CON,SMT,164POS,30u", MYLAR,HT



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

### Also in the Series | AMP .050 Series



Standard Edge Connectors(16)

### Documents



### Product Drawings

#### STANDARD EDGE .050 SERIES 56 DUAL ASSY

English

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### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_5650181-1\\_A.2d\\_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5650181-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5650181-1\\_A.3d\\_stp.zip](#)

English

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

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### Product Specifications

Application Specification

English

Application Specification

English