

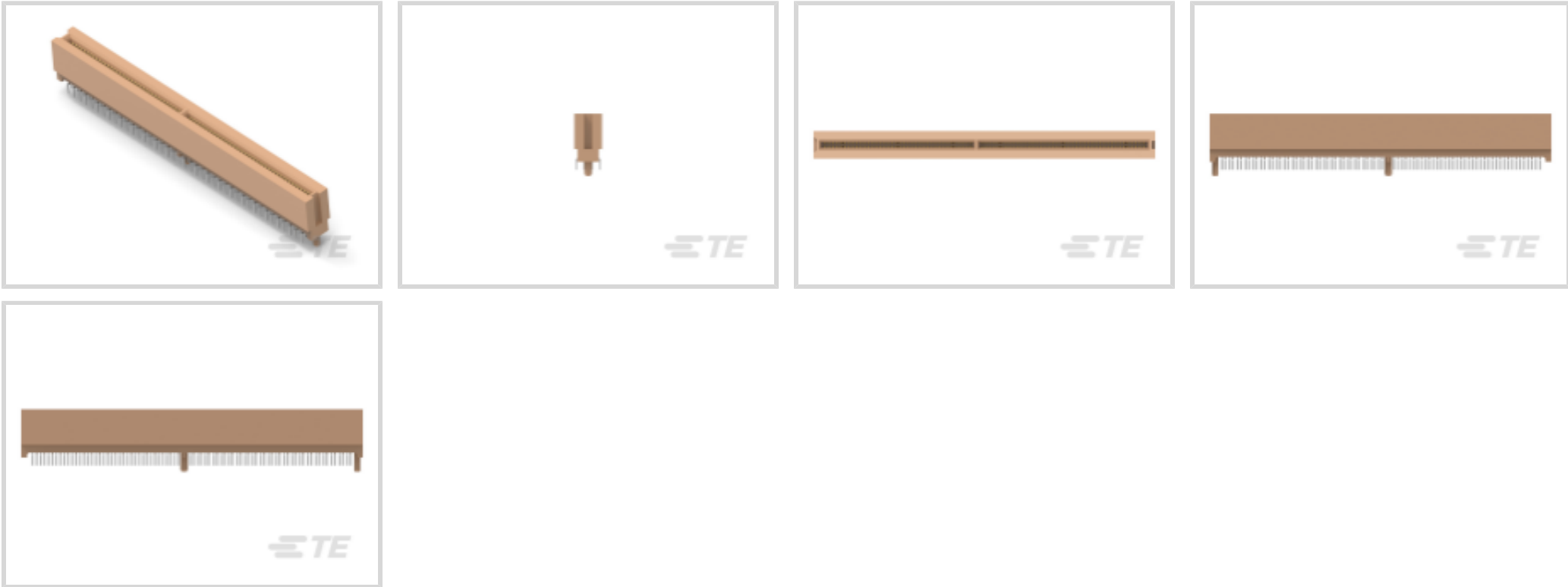


AMP .050 Series

TE Internal #: 5650090-9  
Board-to-Board, 160 Position, 1.27 mm [.05 in] Centerline, 80 Dual  
Positions, 2 Row, Brown, AMP .050 Series, Standard Edge  
Connectors

[View on TE.com >](#)

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



Connector System: **Board-to-Board**  
Number of Positions: **160**  
Centerline (Pitch): **1.27 mm [.05 in]**  
Number of Dual Positions: **80**  
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              | 160          |
| Number of Dual Positions         | 80           |
| Number of Rows                   | 2            |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 203 VAC |
|-------------------|---------|

Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Brown |
|-----------------------|-------|

Contact Features

|   |                  |
|---|------------------|
| PCB Contact Termination Area Plating Material Thickness | 2.54 µm[100 µin] |
| Contact Type  | Socket           |
| Contact Mating Area Plating Material Thickness          | .76 µm           |
| 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 | 2.54 mm[.1 in]        |
| Termination Method to PCB      | Through Hole - Solder |

Mechanical Attachment

|                          |             |
|--------------------------|-------------|
| Mating Retention         | Without     |
| Mating Alignment         | With        |
| 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 Material   | High Temperature Thermoplastic |

Dimensions

|                        |                               |
|------------------------|-------------------------------|
| Accepts Card 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] |
|-----------------------------|---------------------------|

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Packaging Features



|                    |     |
|--------------------|-----|
| Packaging Quantity | 35  |
| Packaging Method   | Box |

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: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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 # 1761842-1  
CONNECTOR ASSY, 60 DUAL POSITI

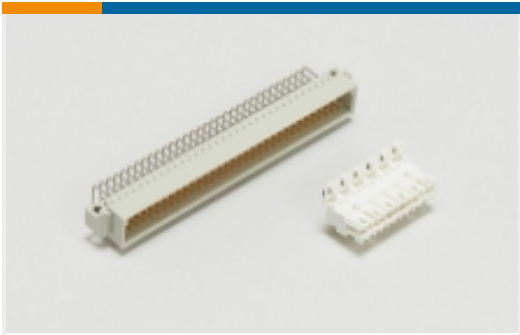


TE Part # 5-2337939-4  
PCIE GEN4 CON,SMT,164POS,30u",  
MYLAR,HT



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

Also in the Series | AMP .050 Series



Standard Edge Connectors(16)

Customers Also Bought



TE Part #414963-1  
SMB Connector: Jack, Right-Angle Mount, Mated Outer Dia. 4.75mm



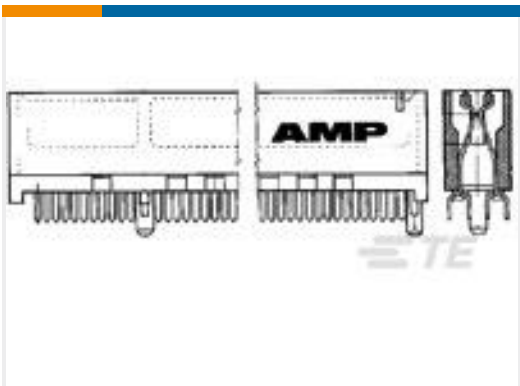
TE Part #3-640440-3  
03P MTA100 CONN ASSY 22AWG RED



TE Part #3-647168-3  
03P MTA100 HDR ASSY SM 30AU LF



TE Part #2007251-1  
SFP+ 1x6 Cage Assembly



TE Part #5650090-1  
STANDARD EDGE .050 SERIES 56 DUAL ASSY



TE Part #1-2176308-5  
RP 1E 0.1W 187K 0.1% 25PPM 5K RL



TE Part #1734595-3  
1.0 WTB SR VT HDR 3 POS



TE Part #828548-4  
4P AMP QUICK STLEI

Documents

Product Drawings

CONNECTOR ASSEMBLY, DUAL POSIT

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5650090-9\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5650090-9\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5650090-9\_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