



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **40**

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

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Type                | PCB Mount Receptacle  |
| Connector System                  | Board-to-Board        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type            | Connector Assembly    |

Configuration Features

|                       |          |
|-----------------------|----------|
| Stackable             | Yes      |
| PCB Mount Orientation | Vertical |
| Number of Positions   | 40       |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Operating Voltage     | 250 VAC |
| Insulation Resistance | 1 MΩ    |

Contact Features

|   |                 |
|---|-----------------|
| Contact Mating Area Plating Material Thickness          | .3 μm[11.9 μin] |
| Mating Tab Width  | .85 mm[.033 in] |
| Contact Shape & Form                                    | Square          |
| PCB Contact Termination Area Plating Material Thickness | 1 μm[39.4 μin]  |
| Contact Layout  | Inline          |



|   |                 |
|---|-----------------|
| Contact Mating Area Length                    | 3.6 mm[.141 in] |
| Contact Base Material                         | Phosphor Bronze |
| Mating Tab Thickness                          | .32 mm[.013 in] |
| PCB Contact Termination Area Plating Material | Tin             |
| Contact Mating Area Plating Material          | Gold (Au)       |
| Contact Type                                  | Socket          |
| Contact Current Rating (Max)                  | 1 A             |

Termination Features

|   |                       |
|---|-----------------------|
| Rectangular Termination Post & Tail Width     | .5 mm[.02 in]         |
| Rectangular Termination Post & Tail Thickness | .32 mm[.013 in]       |
| Termination Post & Tail Length                | 3.1 mm[.122 in]       |
| Termination Method to PCB                     | Through Hole - Solder |

Mechanical Attachment

|                          |                   |
|--------------------------|-------------------|
| Mating Alignment Type    | Guide Pins        |
| PCB Mount Alignment Type | Post Polarization |
| PCB Mount Retention      | Without           |
| PCB Mount Alignment      | Without           |
| Connector Mounting Type  | Board Mount       |
| Mating Alignment         | With              |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Housing Material   | Nylon - GF      |
| Centerline (Pitch) | 1.27 mm[.05 in] |

Dimensions

|                  |                 |
|------------------|-----------------|
| Stack Height     | 11 mm[.433 in]  |
|                  | .3 in           |
| Connector Height | 8.5 mm[.334 in] |

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -55 – 85 °C[-67 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

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

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|



Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 130  |
| Packaging Method   | Tray |

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)<br>Candidate List Declared Against: JAN 2021 (211)<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  |

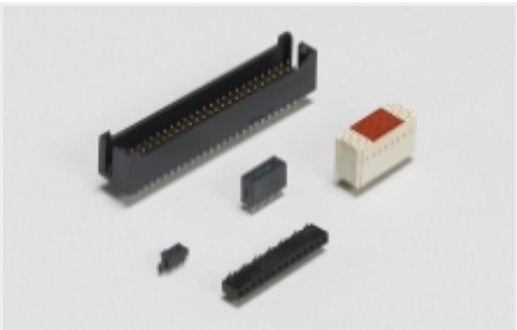
Product Compliance Disclaimer

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>

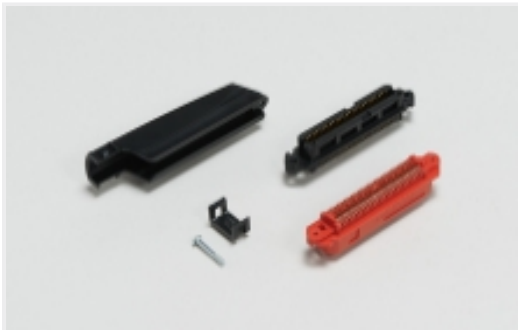
Compatible Parts



Also in the Series | CHAMP .050 Series I



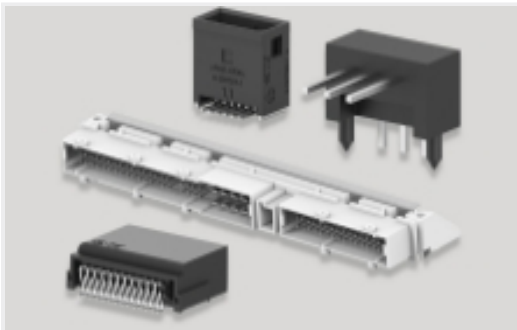
Board-to-Board Headers & Receptacles(133)



IDC D-Sub Connectors(6)



PCB D-Sub Connectors(1)



PCB Headers & Receptacles(133)

Customers Also Bought



TE Part #CAT-D48-ST273  
DEUTSCH Solid Contacts



TE Part #DT04-2P  
REC, 2P, GRY, N



TE Part #DT06-2S  
PLG, 2P, GRY, N



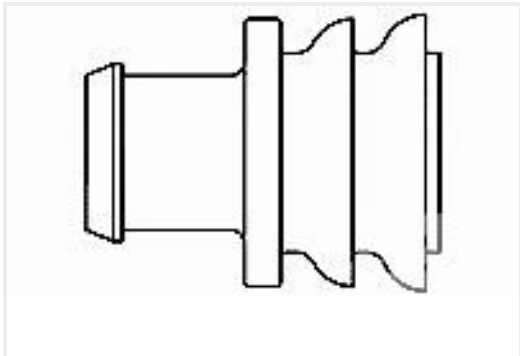
TE Part #CAT-D487-W416  
Wedgelocks: DEUTSCH DT



TE Part #114017-ZZ  
SEALING PLUG, SIZE 12/16, WHT



TE Part #CAT-AM71-CH8172  
AMP SUPERSEAL 1.5MM,  
CONNECTOR HOUSING



TE Part #281934-2  
SINGLE WIRE SEAL

Documents

Product Drawings

AMP FH CONN REC V 40P (H=11)

English

CAD Files

3D PDF

English

Customer View Model

ENG\_CVM\_5176371-1\_O.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_5176371-1\_O.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_5176371-1\_O.2d\_dxf.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.



Instruction Sheets

AMP FH Board-to-Board Connectors

English

Instruction Sheet (non U.S.)

English