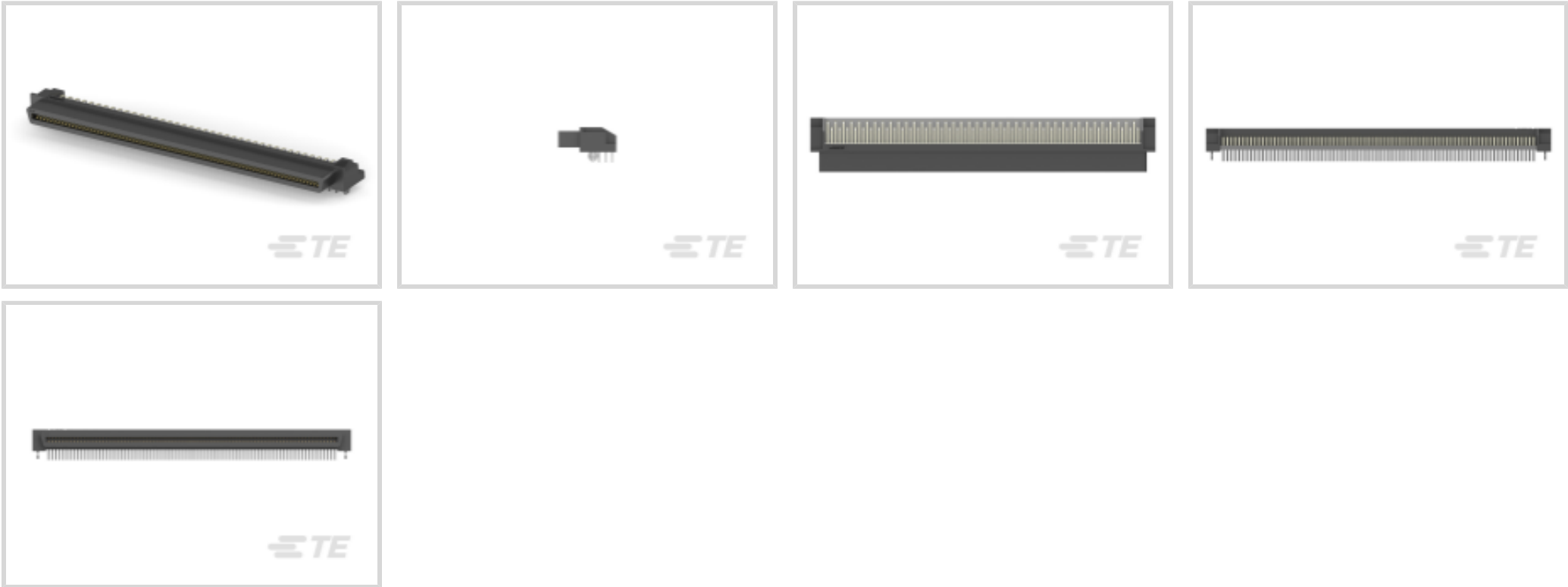




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **160**

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

Features

Product Type Features

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

Configuration Features

|                       |             |
|-----------------------|-------------|
| Stackable             | No          |
| PCB Mount Orientation | Right Angle |
| Number of Positions   | 160         |

Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Dielectric Withstanding Voltage (Max) | 750 VAC |
| Insulation Resistance                 | 4 MΩ    |
| Operating Voltage                     | 250 VAC |

Body Features

|                                |       |
|--------------------------------|-------|
| PCB Retention Feature Material | Brass |
|--------------------------------|-------|



|                                        |          |
|----------------------------------------|----------|
| PCB Retention Feature Plating Material | Tin      |
| Connector Profile                      | Standard |
| Primary Product Color                  | Black    |

Contact Features

|                                                         |                       |
|---------------------------------------------------------|-----------------------|
| Contact Layout                                          | Matrix                |
| PCB Contact Termination Area Plating Material Thickness | 3.81 μm[149.9997 μin] |
| Mating Tab Width                                        | .75 mm[.03 in]        |
| Mating Tab Thickness                                    | .3 mm[.012 in]        |
| PCB Contact Termination Area Plating Material Finish    | Matte                 |
| PCB Contact Termination Area Plating Material           | Tin                   |
| Contact Base Material                                   | Phosphor Bronze       |
| Contact Mating Area Plating Material                    | Gold Flash            |
|                                                         | 30 μin                |
| Contact Type                                            | Socket                |
| Contact Current Rating (Max)                            | 1 A                   |

Termination Features

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Rectangular Termination Post & Tail Thickness | .31 mm[.012 in]       |
| Rectangular Termination Post & Tail Width     | .5 mm[.02 in]         |
| Termination Post & Tail Length                | 3.1 mm[.122 in]       |
| Termination Method to Printed Circuit Board   | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

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

Dimensions

|                  |                  |
|------------------|------------------|
| Connector Height | 7.65 mm[.301 in] |
|------------------|------------------|



Usage Conditions

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

Operation/Application

|                          |        |
|--------------------------|--------|
| Assembly Process Feature | None   |
| Circuit Application      | Signal |

Industry Standards

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

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 1       |
| Packaging Type     | Package |

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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>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                     | 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 # 1-1734100-6  
Champ050 series,160pos,Au over PdNi

Also in the Series

CHAMP .050 Series I

IDC D-Sub Connectors(6)

PCB Headers & Receptacles(140)

Standard Rectangular Connectors(1)

## Documents

### Product Drawings

Champ 050 series 160pos,Au over PdNi

English

### CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-1734037-6\_G.2d\_dxf.zip

English

### 3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1734037-6\_G.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1734037-6\_G.3d\_stp.zip

English

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

### Product Specifications

Application Specification

English

CHAMP .050 High Density Connector

English



Application Specification

English