



Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **30**

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 | Vertical |
| Number of Positions   | 30       |

Electrical Characteristics

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

Body Features

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

Contact Features

|                                                         |                |
|---------------------------------------------------------|----------------|
| PCB Contact Termination Area Plating Material Thickness | 1 μm[39.4 μin] |
|---------------------------------------------------------|----------------|



|                                                |                     |
|------------------------------------------------|---------------------|
| Contact Layout                                 | Inline              |
| Mating Tab Width                               | .8 mm[.031 in]      |
| Mating Tab Thickness                           | .32 mm[.013 in]     |
| Contact Shape & Form                           | Single Tine, Square |
| Contact Underplating Material                  | Nickel              |
| PCB Contact Termination Area Plating Material  | Tin                 |
| Contact Base Material                          | Phosphor Bronze     |
| Contact Mating Area Plating Material           | Gold                |
| Contact Mating Area Plating Material Thickness | .5 µm[19.7 µin]     |
| Contact Type                                   | Receptacle          |
| Contact Current Rating (Max)                   | 1 A                 |

Termination Features

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

Mechanical Attachment

|                          |               |
|--------------------------|---------------|
| PCB Mount Retention Type | Retention Leg |
| 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   | Nylon 66 GF     |

Dimensions

|                             |                |
|-----------------------------|----------------|
| Connector Height            | 10 mm[.393 in] |
| Connector Width             | 7 mm[.275 in]  |
| PCB Thickness (Recommended) | 12.7 mm[.5 in] |

Usage Conditions

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



Operation/Application

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

Industry Standards

|                                           |            |
|-------------------------------------------|------------|
| UL Rating                                 | Recognized |
| Compatible With Agency/Standards Products | UL         |
| UL Flammability Rating                    | UL 94V-0   |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 150  |
| 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: JUNE 2024 (241)<br>Candidate List Declared Against: JAN 2022 (223)<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 # 3-5175473-3  
[CHAMP 050 B/B PLUG V W/LG 30P](#)

Also in the Series

CHAMP .050 Series I



[IDC D-Sub Connectors\(6\)](#)



[PCB Headers & Receptacles\(134\)](#)

Customers Also Bought



TE Part #206044-1  
[CPC PLUG ASSEMBLY SIZE 17-14](#)



TE Part #770988-1  
[MINI UMNL SOK 22-18AWG SN LP](#)



TE Part #770987-1  
[MINI UMNL PIN 22-18AWG SN LP](#)

Documents

Product Drawings

[CHAMP 050 B/B REC V W/LEG 30P](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG\\_CVM\\_3-5175475-3\\_O.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_3-5175475-3\\_O.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_3-5175475-3\\_O.3d\\_stp.zip](#)



English

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Product Specifications

Product Specification

English