

Connectors > PCB Connectors > Board-To-Board Connectors > Board-To-Board Headers & Receptacles

# 1-5175472-1

CHAMP 050 B/B PLUG H W/LEG 120P



CHAMP | CHAMP .050 Series I

TE Internal #: **1-5175472-1**  
TE Internal Description: **CHAMP 050 B/B PLUG H W/LEG 120P**

PCB Connector Assembly Type : **PCB Mount Header**  
PCB Mount Orientation : **Right Angle**  
Connector System : **Board-to-Board**  
Number of Positions : **120**  
Centerline (Pitch) : **1.27 mm [ .05 in ]**

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| Documents                                                                                                                                                               | Features                                                                                                                                                                                                                                                                            | Product Compliance |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Product Drawings                                                                                                                                                        | CHAMP 050 B/B PLUG H W/LEG 120P<br><a href="#">CHAMP 050 B/B PLUG H W/LEG 120P</a> English                                                                                                                                                                                          |                    |
| CAD Files                                                                                                                                                               | Customer View Model<br><a href="#">ENG_CVM_1-5175472-1_O.2d_dxf.zip</a> English<br>Customer View Model<br><a href="#">ENG_CVM_1-5175472-1_O.3d_igs.zip</a> English<br><a href="#">ENG_CVM_1-5175472-1_O.3d_stp.zip</a> English<br><a href="#">ENG_CVM_1-5175472-1_O.pdf</a> English |                    |
| Product Specifications                                                                                                                                                  | Product Specification<br><a href="#">ENG_SS_108-60038_O.pdf</a> English                                                                                                                                                                                                             |                    |
| Please review product documents or <a href="#">contact us</a> for the latest agency approval information. Please Note: Use the Product Drawing for all design activity. |                                                                                                                                                                                                                                                                                     |                    |
| Product Type Features                                                                                                                                                   | PCB Connector Assembly Type : <b>PCB Mount Header</b><br>Connector System : <b>Board-to-Board</b><br>Sealable : <b>No</b><br>Connector & Contact Terminates To : <b>Printed Circuit Board</b><br>Series : <b>High Density (HD)</b><br>Profile : <b>Standard</b><br>Boss : <b>No</b> |                    |

Feedback



|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Configuration Features     | Stackable : <b>No</b><br>PCB Mount Orientation : <b>Right Angle</b><br>Number of Positions : <b>120</b><br>Board-to-Board Configuration : <b>Right Angle</b><br>Number of Rows : <b>1</b>                                                                                                                                                                                                                                                                                      |
| Electrical Characteristics | Voltage (VAC): <b>250</b><br>Insulation Resistance (MΩ): <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                              |
| Body Features              | PCB Retention Feature Plating Material : <b>Tin over Nickel</b><br>PCB Retention Feature Material : <b>Brass</b>                                                                                                                                                                                                                                                                                                                                                               |
| Contact Features           | Contact Base Material : <b>Phosphor Bronze</b><br>PCB Contact Termination Area Plating Material : <b>Tin</b><br>Contact Configuration : <b>Single Tine</b><br>Contact Mating Area Plating Material : <b>Gold</b><br>Contact Mating Area Plating Thickness : <b>.2 μm [ 7.9 μin ]</b><br>Contact Type : <b>Tab</b><br>Contact Current Rating (Max) (A): <b>1</b><br>PCB Contact Termination Area Plating Thickness : <b>1 μm [ 39.4 μin ]</b><br>Contact Layout : <b>Inline</b> |
| Termination Features       | Termination Method to Printed Circuit Board : <b>Through Hole</b><br>Termination Post Length : <b>3.1 mm [ .122 in ]</b>                                                                                                                                                                                                                                                                                                                                                       |
| Mechanical Attachment      | PCB Mount Retention Type : <b>Boardlock, Retention Leg</b><br>Mating Alignment : <b>With</b><br>Mating Alignment Type : <b>Polarized</b><br>PCB Mount Retention : <b>With</b><br>PCB Mount Alignment : <b>Without</b><br>Connector Mounting Type : <b>Board Mount</b>                                                                                                                                                                                                          |
| Housing Features           | Centerline (Pitch) : <b>1.27 mm [ .05 in ]</b><br>Housing Material : <b>Nylon - GF</b>                                                                                                                                                                                                                                                                                                                                                                                         |
| Dimensions                 | PCB Thickness (Recommended) (in): <b>.2</b><br>Mating Post Length : <b>6.6 mm [ .259 in ]</b><br>Height : <b>7.5 mm [ .295 in ]</b><br>Tail Length (in): <b>.123</b>                                                                                                                                                                                                                                                                                                           |
| Usage Conditions           | Operating Temperature Range : <b>-55 – 85 °C [ -67 – 185 °F ]</b>                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operation/Application      | Circuit Application : <b>Signal</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Industry Standards         | UL Flammability Rating : <b>UL 94V-0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Packaging Features         | Packaging Method : <b>Tray</b><br>Packaging Quantity : <b>50</b>                                                                                                                                                                                                                                                                                                                                                                                                               |

EU RoHS  
Directive  
2011/65/EU

EU RoHS  
Directive with  
Phthalates  
Amendment  
2011/65/EU,  
2015/863/EU

*The 4 Phthalates substances of amendment 2015/863/EU only become restricted as of 22 July 2019 for all electrical and electronic equipment, apart from Categories 8 (medical devices) and 9 (monitoring and control equipment) for which the restriction applies as of 22 July 2021.*

EU ELV Directive  
2000/53/EC

China RoHS 2  
Directive MIIT  
Order No 32, 2016

EU REACH  
Regulation (EC)  
No. 1907/2006

Current ECHA Candidate List: **JAN 2019 (197)**  
Candidate List Declared Against: **JUN 2018 (191)**

Halogen Content

Solder Process  
Capability

Wave solder capable to 265°C

Statement of  
Compliance

[Statement of Compliance pdf](#)

Compliance  
Documents

There may be Environmental Compliance related documents on the [DOCUMENTATION Tab](#)

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, 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>

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W/LEG 120P**



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PCB Connector Assembly Type :  
PCB Mount Header  
PCB Mount Orientation : Right  
Angle  
Connector System : Board-to-  
Board  
Number of Positions : 120 ...

BOARD-TO-BOARD HEADERS &...  
**CHAMP 050 B/B PLUG H  
W/LEG 100P**



**Non-Stocked**

PCB Connector Assembly Type :  
PCB Mount Header  
PCB Mount Orientation : Right  
Angle  
Connector System : Board-to-  
Board  
Number of Positions : 100 ...

BOARD-TO-BOARD HEADERS &...  
**CHAMP 050 B/B PLUG H  
W/LEG 60P**



**Non-Stocked**

PCB Connector Assembly Type :  
PCB Mount Header  
PCB Mount Orientation : Right  
Angle  
Connector System : Board-to-  
Board  
Number of Positions : 60 ...

BOARD-TO-BOARD HEADERS &...  
**CHAMP 050 B/B PLUG H  
W/LEG 30P**



**In-Stock**

PCB Connector Assembly Type :  
PCB Mount Header  
PCB Mount Orientation : Right  
Angle  
Connector System : Board-to-  
Board  
Number of Positions : 30 ...

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