



English

Connector, CHAMP, 050, Board-To-Board, Vertical and Right Angle Mounting

 [S\\_108-1367\\_B.tif](#)

English

Product Specification

 [ENG\\_SS\\_108-1367\\_B.pdf](#)

English

Qualification Test Report

 [ENG\\_SS\\_501-173\\_A.pdf](#)

English

Connector, CHAMP, 050, Board To Board, Vertical & Rt Angle Mounting

 [S\\_501-173\\_A.tif](#)

English

Qualification Test Report

 [JPN\\_SS\\_501-173\\_A.pdf](#)

Japanese

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

## 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**  
Number of Rows : **4**  
PCB Mount Orientation : **Vertical**  
Number of Positions : **68**

## Electrical Characteristics

Operating Voltage (VAC): **250**  
Insulation Resistance (MΩ): **4**  
Dielectric Withstanding Voltage (Max) (VAC): **750**

## Body Features

Connector Profile : **Standard**  
PCB Retention Feature Plating Material :  
**Tin-Copper over Nickel**  
PCB Retention Feature Material : **Brass**

## Contact Features

Contact Base Material : **Phosphor Bronze**  
PCB Contact Termination Area Plating Material : **Tin**  
Contact Mating Area Plating Material Finish : **Matte**  
PCB Contact Termination Area Plating Material Finish : **Matte**  
PCB Contact Termination Area Plating Material Thickness :  
**3.8 µm [ 149.606 µin ]**  
Contact Mating Area Plating Material : **Gold Flash**  
Contact Mating Area Plating Material Thickness :  
**.76 µm [ 30 µin ]**  
Contact Type : **Socket**  
Contact Current Rating (Max) (A): **1**  
Contact Layout : **Matrix**

|                         |                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Termination Features    | Termination Post & Tail Length : <b>2.54 mm [ .1 in ]</b><br>Termination Method to Printed Circuit Board :<br><b>Through Hole - Solder</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>With</b><br>Connector Mounting Type : <b>Board Mount</b><br>PCB Mount Alignment Type : <b>Locating Posts</b> |
| Housing Features        | Centerline (Pitch) : <b>1.27 mm [ .05 in ]</b><br>Housing Material : <b>Matte</b>                                                                                                                                                                                                                                      |
| Dimensions              | Connector Height : <b>10 mm [ .393 in ]</b><br>Row-to-Row Spacing : <b>1.904 mm [ .0748 in ]</b><br>PCB Thickness (Recommended) : <b>.8 – 1.6 mm [ .76 in ]</b>                                                                                                                                                        |
| Usage Conditions        | Operating Temperature Range : <b>-55 – 85 °C [ -67 – 185 °F ]</b>                                                                                                                                                                                                                                                      |
| Operation/Application   | Assembly Process Feature : <b>None</b><br>Circuit Application : <b>Signal</b>                                                                                                                                                                                                                                          |
| Industry Standards      | UL Flammability Rating : <b>UL 94V-0</b>                                                                                                                                                                                                                                                                               |
| Packaging Features      | Packaging Quantity : <b>54</b><br>Packaging Method : <b>Package</b>                                                                                                                                                                                                                                                    |
| Statement of Compliance | <a href="#">Statement of Compliance</a> pdf                                                                                                                                                                                                                                                                            |
|                         |                                                                                                                                                                                                                                                                                                                        |

Also in the Series | [CHAMP .050 Series I](#)



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