



Connectors > D-Shaped Connectors > D-Sub Connectors > PCB D-Sub Connectors



Connector & Housing Type: **Receptacle**

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

Number of Positions: **50**

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

Number of Rows: **4**

## Features

### Product Type Features

Shell Type	Front Metal Shell
Connector & Housing Type	Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Type	Header
Product Type	Connector

### Configuration Features

Number of Positions	50
Number of Rows	4
PCB Mount Orientation	Vertical
Preloaded	Yes

### Body Features

Connector Profile	Standard
Color	Black
Shell Material	Steel
Shell Plating Material	Nickel over Copper

### Contact Features

Contact Mating Area Plating Material	Gold
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Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	1 A
	12 μin

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
Termination Post Length	3.1 mm[.122 in]

### Mechanical Attachment

Panel Mount Feature	With
PCB Mount Retention	With
PCB Mount Retention Type	Retention Leg
Mating Retention	With
Mating Retention Type	Latches
Connector Mounting Type	Board Mount
Mounting Angle	Vertical
Mounting Hole Diameter	2.88 mm

### Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	Thermoplastic, Zinc Die Cast
Housing Color	Black

### Dimensions

Row-to-Row Spacing	1.9 mm[.075 in]
Panel Thickness	2.01 mm[.079 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]

### Usage Conditions

Housing Material Temperature	Standard
Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]

### Operation/Application

Circuit Application	Signal
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### Industry Standards

UL Flammability Rating	UL 94V-0
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## Packaging Features

Packaging Method	Tube
Packaging Quantity	9

## 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) Candidate List Declared Against: JUL 2019 (201) 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>

## Documents

### Product Drawings

[CHAMP 050-2 REC HDR ASSY V 50P](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_5917334-7\\_O.2d\\_dxf.zip](#)

English

[3D PDF](#)

3D



Customer View Model

[ENG\\_CVM\\_CVM\\_5917334-7\\_O.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5917334-7\\_O.3d\\_stp.zip](#)

English

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**Product Specifications**

[CHAMP.050 Series\(II\) Connector Wire to Board Type](#)

English

[Product Specification](#)

English