

5176378-1 ✓ ACTIVE

CHAMP | CHAMP .050 Series I

TE Internal #: 5176378-1

PCB Mount Receptacle, Vertical, Board-to-Board, 40 Position, 1.27 mm [.05 in] Centerline, Gold, Through Hole - Solder, Signal, CHAMP .050 Series I

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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: **40**

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	Yes
PCB Mount Orientation	Vertical
Number of Positions	40

### Electrical Characteristics

Insulation Resistance	1 M $\Omega$
Operating Voltage	250 VAC

### Contact Features

Contact Layout	Inline
Contact Mating Area Length	3.6 mm[.141 in]
PCB Contact Termination Area Plating Material Thickness	1 $\mu$ m[39.4 $\mu$ in]
Mating Tab Width	.85 mm[.033 in]
Mating Tab Thickness	.32 mm[.013 in]
Contact Shape & Form	Square



PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.3 $\mu\text{m}$ [11.9 $\mu\text{in}$ ]
Contact Type	Socket
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 Printed Circuit Board	Through Hole - Solder

#### Mechanical Attachment

PCB Mount Alignment Type	Post Polarization
Mating Alignment	Without
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount

#### Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	Nylon - GF

#### Dimensions

Connector Height	8.5 mm[.334 in]
Stack Height	18 mm[.709 in]
	.3 in

#### Usage Conditions

Operating Temperature Range	-55 – 85 $^{\circ}\text{C}$ [-67 – 185 $^{\circ}\text{F}$ ]
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#### Operation/Application

Circuit Application	Signal
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#### Industry Standards

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

Packaging Quantity	130
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Packaging Type

Box

## 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: JAN 2022 (223)  
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>

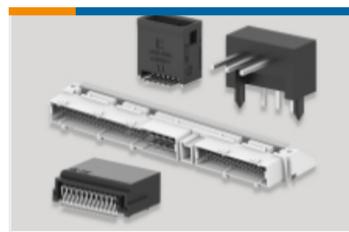
## Compatible Parts



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



IDC D-Sub Connectors(6)



PCB Headers &amp; Receptacles(140)



Standard Rectangular Connectors(1)

## Documents

### Product Drawings

[REC ASS'Y\(V\) 40P 1.27FHBB](#)

English

### CAD Files

[3D PDF](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_5176378-1\\_O.3d\\_igs.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_5176378-1\\_O.3d\\_stp.zip](#)

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[Customer View Model](#)

[ENG\\_CVM\\_5176378-1\\_O.2d\\_dxf.zip](#)

English

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### Product Specifications

[Product Specification](#)

English

[Product Specification](#)

English

[AMP FH CONNECTOR](#)

English

### Product Environmental Compliance

[Product Compliance](#)

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[Product Compliance](#)

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### Instruction Sheets

[AMP FH Board-to-Board Connectors](#)

English

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[Instruction Sheet \(non U.S.\)](#)

English