

5176372-3 ✓ ACTIVE

CHAMP | CHAMP .050 Series I

TE Internal #: 5176372-3

PCB Mount Receptacle, Vertical, Board-to-Board, 80 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: **80**

Number of Rows: **1**

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	80
Number of Rows	1

Electrical Characteristics

Insulation Resistance	1 M Ω
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 μ m[39.4 μ 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 μm [11.9 μin]
Contact Type	Socket
Contact Current Rating (Max)	1 A

Termination Features

Termination Post & Tail Length	3.2 mm[.126 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Post Polarization
Mating Alignment	With
Mating Alignment Type	Guide Pins
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	9.5 mm[.374 in]
Stack Height	12 mm[.472 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	70
Packaging Type	Tray

Product Compliance

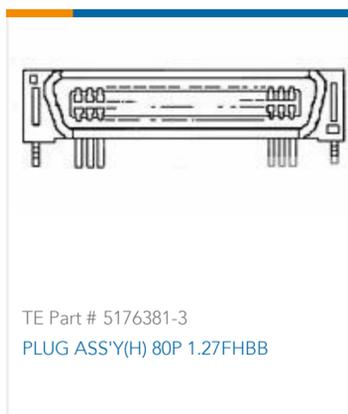
[For compliance documentation, visit the product page on TE.com>](#)

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 2022 (224) Not Yet Reviewed
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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



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



IDC D-Sub Connectors(6)



PCB Headers & Receptacles(140)



Standard Rectangular Connectors(1)

Documents

Product Drawings

[AMP FH CONN REC V 80P \(H=11\)](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_5176372-3_O.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_5176372-3_O.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_5176372-3_O.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Instruction Sheets

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

English

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

English