5176371-4 ✔ ACTIVE

CHAMP | CHAMP .050 Series I

TE Internal #: 5176371-4

PCB Mount Receptacle, Vertical, Board-to-Board, 100 Position, 1.27 mm [.05 in] Centerline, Gold (Au), Through Hole - Solder, CHAMP .050 Series I

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **100**

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

PCB Mount Orientation: **Vertical**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Stackable	Yes
Number of Positions	100
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	1 MΩ

Contact Features

Mating Tab Width	.85 mm[.033 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.4 µin]
Contact Shape & Form	Square
Contact Layout	Inline
Contact Mating Area Length	3.6 mm[.141 in]

Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.32 mm[.013 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.3 µm[11.9 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Width	.5 mm[.02 in]
Rectangular Termination Post & Tail Thickness	.32 mm[.013 in]
Termination Post & Tail Length	3.1 mm[.122 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Height	8.5 mm[.334 in]
	.3 in
Stack Height	11 mm[.433 in]

Usage Conditions

Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]

Operation/Application

Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	60
Packaging Method	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 2025 (250) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

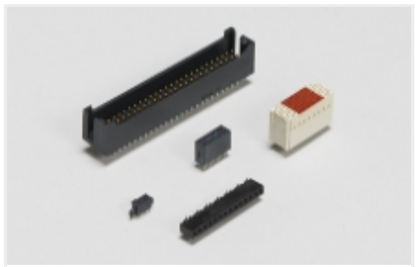
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

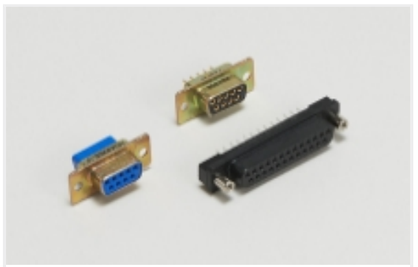


TE Part # 5176381-4
PLUG ASS'Y(H) 100P 1.27FHBB

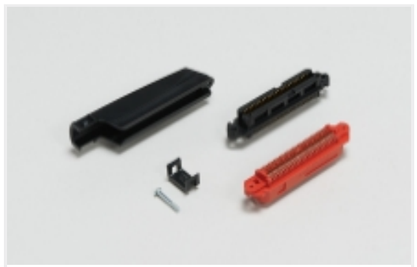
Also in the Series | CHAMP .050 Series I



Board-to-Board Headers & Receptacles(127)



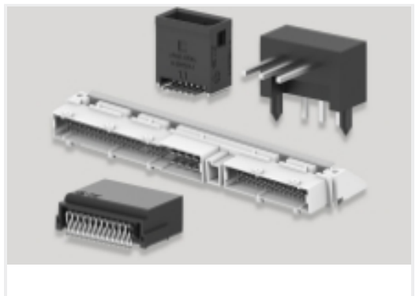
D-Shaped Connectors(7)



IDC D-Sub Connectors(6)



PCB D-Sub Connectors(1)



PCB Headers & Receptacles(127)

Customers Also Bought



TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT



TE Part #CAT-D48-ST273
DEUTSCH Solid Contacts



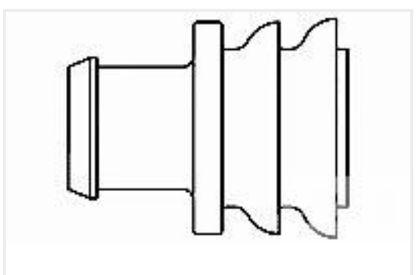
TE Part #DT04-2P
REC, 2P, GRY, N



TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #DT06-2S
PLG, 2P, GRY, N



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING

Documents

Product Drawings

VERT RCPT ASSY,100POS,CHAMP050

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_5176371-4_O.3d_igs.zip

English

Customer View Model

ENG_CVM_5176371-4_O.3d_stp.zip

English

Customer View Model

ENG_CVM_5176371-4_O.2d_dxf.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