



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Right Angle**

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	No
PCB Mount Orientation	Right Angle
Number of Positions	40

Electrical Characteristics

Insulation Resistance	1 MΩ
Operating Voltage	250 VAC

Body Features

PCB Retention Feature Material	Brass
PCB Retention Feature Plating Material	Tin over Nickel
Connector Profile	Standard
Primary Product Color	Black

Contact Features

Contact Layout	Inline
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PCB Contact Termination Area Plating Material Thickness	1 µm[39.4 µin]
Mating Tab Width	.8 mm[.031 in]
Mating Tab Thickness	.32 mm[.013 in]
Contact Shape & Form	Single Tine, Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.2 µm[7.9 µin]
Contact Type	Receptacle
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 Retention Type	Retention Leg
Mating Alignment	With
Mating Alignment Type	Polarized
PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	Nylon 66 GF

Dimensions

Connector Height	7.5 mm[.295 in]
Connector Width	17.46 mm[.687 in]
PCB Thickness (Recommended)	5.08 mm[.2 in]

Usage Conditions

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

Circuit Application	Signal
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Industry Standards

UL Rating	Recognized
Agency/Standard	UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	120
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: JAN 2022 (223) Candidate List Declared Against: JUL 2021 (219) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Low Halogen - Br, Cl, F, I < 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 # 3-5175472-5
CHAMP 050 B/B PLUG H W/LEG 40P

TE Part # 3-5175475-5
CHAMP 050 B/B REC V W/LEG 40P

Also in the Series | CHAMP .050 Series I

IDC D-Sub Connectors(6)

PCB Headers & Receptacles(140)

Standard Rectangular Connectors(1)

Customers Also Bought

TE Part #643232-1
05P UMNL HDR ASSY R/A 94VO

TE Part #1-770182-0
09P MINI-UMNL ASSY V0 SNNI

TE Part #2-1393219-0
PE514012

TE Part #1-1879208-2
CPF 0402 30R 0.1% 25PPM 1K RL

TE Part #3-5175472-5
CHAMP 050 B/B PLUG H W/LEG 40P

TE Part #4-1393224-2
RY211005

TE Part #9-2304372-9
1-PORT MATENET HDR ASSY 90DEG, COD Z

TE Part #1-1825910-9
FSM10JAH=6MM TACT SWITCH, HIGH TEMP

TE Part #215222-4
4P/4C.MOD.JACK ASSY



Documents

Product Drawings

CHAMP 050 B/B REC H W/LEG 40P

English

CAD Files

Customer View Model

ENG_CVM_CVM_5175474-5_O.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5175474-5_O.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5175474-5_O.3d_stp.zip

English

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Product Specifications

Product Specification

English