



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
PCB Mount Orientation: **Right Angle**
Connector System: **Board-to-Board**
Number of Positions: **120**
Centerline (Pitch): **1.27 mm [.05 in]**

Features

Product Type Features

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

Configuration Features

Stackable	No
PCB Mount Orientation	Right Angle
Number of Positions	120

Electrical Characteristics

Operating Voltage	12 VDC
Insulation Resistance	4 MΩ
Dielectric Withstanding Voltage (Max)	500 VAC



Body Features

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

Contact Features

PCB Contact Termination Area Plating Material Finish	Matte
Mating Tab Width	.75 mm[.03 in]
PCB Contact Termination Area Plating Material Thickness	3.81 μm[149.9997 μin]
Contact Shape & Form	Square
Contact Layout	Matrix
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.3 mm[.012 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold Flash
Contact Type	Pin
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Width	.5 mm[.02 in]
Rectangular Termination Post & Tail Thickness	.29 mm[.012 in]
Termination Post & Tail Length	3.1 mm[.122 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Polarized
PCB Mount Retention Type	Boardlock
PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

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



Dimensions

Stack Height	13.2 mm[.52 in]
Connector Height	7.5 mm[.295 in]

Usage Conditions

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

Assembly Process Feature	None
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	15
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: JAN 2025 (247) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC
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 # 1734037-2
Champ 050 series,80pos,Au over PdNi

TE Part # 1734037-1
Champ 050 series,80pos,Au over PdNi

Also in the Series | CHAMP .050 Series I

Board-to-Board Headers & Receptacles(133)

IDC D-Sub Connectors(6)

PCB D-Sub Connectors(1)

PCB Headers & Receptacles(133)

Customers Also Bought

TE Part #1-1734037-2
Champ 050 series 120pos,Au over PdNi

TE Part #2176083-6
EP 5W (S) 68R 5%

TE Part #5223955-2
TE UPM Ver Receptacle 3P STD Power

TE Part #1-1734101-2
Champ050 series,120pos,Au over PdNi

TE Part #5558342-1
MJ,8POS,R/A,CAT5,SHLD,PC GND

TE Part #503123-000
DK-621-0412-S

TE Part #1-1337583-0
MCX R/A SMT Skt 50Ohm Gold Pltd

TE Part #2-582118-0
TEST PROBE REC130L BI-MT BLK SPBR



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1734099-2_F.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1734099-2_F.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1734099-2_F.3d_stp.zip

English

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Product Specifications

Application Specification

English

CHAMP .050 High Density Connector

English

Application Specification

English