



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **50**

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

Features

Product Type Features

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

Configuration Features

Stackable	No
PCB Mount Orientation	Right Angle
Number of Positions	50

Electrical Characteristics

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

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

Contact Layout	Matrix
PCB Contact Termination Area Plating Material Thickness	3.81 μm[149.9997 μin]
Mating Tab Width	.75 mm[.03 in]
Mating Tab Thickness	.3 mm[.012 in]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Square
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold Flash
	1.9685 μin
Contact Type	Pin
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Thickness	.29 mm[.012 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	Boardlock
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	Matte



Dimensions

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

Usage Conditions

Operating Temperature Range	-35 – 85 °C[-31 – 185 °F]
-----------------------------	---------------------------

Operation/Application

Assembly Process Feature	None
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

Packaging Features

Packaging Quantity	35
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: JUL 2021 (219) Candidate List Declared Against: JAN 2021 (211) 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 # 1734098-5

Champ050 50p A/P RCPT 25CL PB

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 #1734037-5

Champ 050 series,50pos,Au over PdNi

TE Part #2007193-1

SFP+ 1x1 Cage Assembly, PCI, S

TE Part #2170567-6

1X4 QSFP KIT ASSY, CUSTOMERIZED HS

TE Part #2170567-7

1X4 QSFP KIT ASSY W/ LP, CUSTOMERIZED HS

TE Part #2185245-7

ASSY, EXTRCTN TL, QSFP 1 X 4

TE Part #2294667-5

SFP+ 1X1 CAGE ASSEMBLY, SOLDER TAIL

TE Part #2316664-1

SFP+ 1x1 Cage Assembly, PCI, Solder Tail

TE Part #2294662-4

CAGE ASSY,1X4, QSFP28,SPRING, HS, DUAL LP



Documents

Product Drawings

Champ 050 series,plug assembly

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1734099-5_F.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1734099-5_F.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1734099-5_F.3d_stp.zip

English

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

Product Specifications

Application Specification

English

CHAMP .050 High Density Connector

English

Application Specification

English

Product Environmental Compliance

MD_1734099-5_091420172357_dmtec

English

MD_1734099-5_091420172357_dmtec

English