



Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **50**

Number of Rows: **2**

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

Number of Loaded Positions	50
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2

Electrical Characteristics

Termination Resistance	12 mΩ
Dielectric Withstanding Voltage (Max)	300 VAC
Insulation Resistance	5000 MΩ



Body Features

Assembly Process Feature Material	Aluminum
Primary Product Color	Black

Contact Features

PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Layout	Inline
Mating Pin Diameter	.46 mm[.018 in]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Dual, Round
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Contact Type	Pin
Contact Current Rating (Max)	.5 A

Termination Features

Round Termination Post & Tail Diameter	.45 mm[.018 in]
Termination Post & Tail Length	2.46 mm[.097 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Hold-Down
PCB Mount Retention Type	Hold-Down
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	LCP (Liquid Crystal Polymer)



Dimensions

Connector Length	60.25 mm[2.38 in]
Connector Height	5.73 mm[.23 in]
Connector Width	5.72 mm[.23 in]
Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	6.35 mm[.25 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

Usage Conditions

Housing Temperature Rating	High
Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]

Operation/Application

Assembly Process Feature	Vacuum Cover
Circuit Application	Signal

Industry Standards

Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	CSA LR7189, UL E28476

Packaging Features

Packaging Method	Tape & Reel
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Product Compliance

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

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) SVHC > Threshold: Pb (13% in Component Part) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability



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 # 104893-5
50 50/50 GRID CABLE RECPT

TE Part # 104652-5
50 50/50 GRID DRST SFMNT RCPT

TE Part # 147384-5
50 50/50 GRID DR SMT RCPT VC

TE Part # 2267254-5
50 50/50 GRID DRST TH RCPT

TE Part # 2267261-5
50 50/50 GRID DR TH/PiP RCPT VC

Also in the Series | AMPMODU 50/50 Grid

Connector Caps & Covers(9)

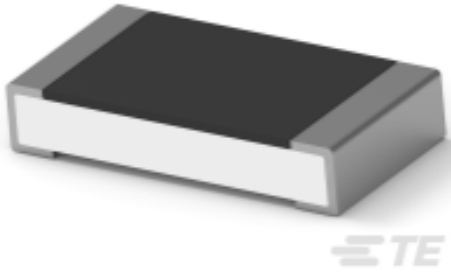
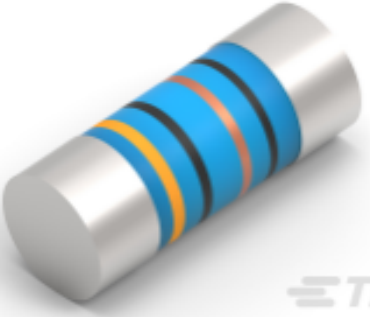


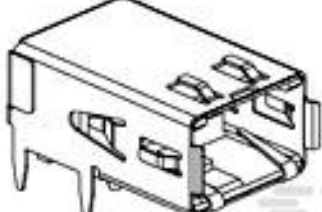

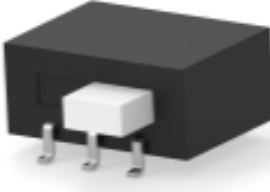
Insertion & Extraction Tools(1)

PCB Headers & Receptacles(299)

Ribbon Cable Connectors(34)

Customers Also Bought



 <p>TE Part #4-2176391-7 RQ 1206 37K4 0.1% 10PPM 5K RL</p>	 <p>TE Part #2176314-4 MELF SMA_A 180R 0.1% 15PPM 0102 0.3W</p>	 <p>TE Part #1-928836-2 MOD2 PIN WITH A-PIN L/P</p>	 <p>TE Part #7-2176246-6 CRGS2512 5% 1M8</p>
 <p>TE Part #1761072-3 RECPT,HSSDC2,FIBRE,TRAY PKG</p>	 <p>TE Part #3-1415020-1 PT570N20</p>	 <p>TE Part #1-1437581-1 ASE22RL=AUTOSLIDE DP</p>	

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1571424-6_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1571424-6_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1571424-6_1.3d_stp.zip

English

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Datasheets & Catalog Pages

AMPMODU 50/50 GRID THRU-HOLE

English

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English