



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **50**

Number of Rows: **2**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Board-to-Board Configuration	Parallel
Stackable	No
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2

Electrical Characteristics

Operating Voltage	30 VAC
Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	300 VAC



Body Features

Assembly Process Feature Material	Aluminum
PCB Retention Feature Material	Copper Alloy
PCB Retention Feature Plating Material	Tin-Lead over Nickel
Primary Product Color	Black

Contact Features

Mating Pin Diameter	.46 mm[.018 in]
Contact Mating Area Plating Material Thickness	.762 μm[30 μin]
	150 μin
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	.36 mm[.014 in]
Rectangular Termination Post & Tail Thickness	.08 mm[.003 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

Mating Alignment Type	Polarizing Tab
PCB Mount Retention Type	Hold-Down Post
PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.27 mm[.05 in]

Dimensions

Row-to-Row Spacing	1.27 mm[.05 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Connector Height	4.75 mm[.187 in]



Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Operation/Application

Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal

Industry Standards

Compatible With Approved Standards Products	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Reel Diameter	56 mm[2.2 in]
Packaging Quantity	600
Packaging Method	Tape & Reel

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (13% in 4690971273) 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	Reflow solder capable to 260°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 # 104892-5
50 50/50 GRID CBLE RECP W/LTCH

TE Part # 104655-6
50 50/50 HDR DRST SFMNT .250

TE Part # 104891-5
50 50/50 GRID CABLE RCPT COVER

TE Part # 104656-5
50 50/50 HDR DRST SFMNT .320

TE Part # 104895-5
50 50/50 GRID RA HDR W/LTCH

TE Part # 104693-5
50 50/50 HDR DRST SFMNT .390

TE Part # 104894-5
50 50/50 GRID RA HDR

TE Part # 147381-5
50 50/50 HDR SMT.250 W/HD VC

TE Part # 147383-3
30 50/50 HDR SMT.390 W/HD VC

Also in the Series | AMPMODU 50/50 Grid

Board-to-Board Headers & Receptacles(193)

Connector Caps & Covers(7)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(193)



Rectangular Power Connectors(12)



Ribbon Cable Connectors(21)

Customers Also Bought



TE Part #1-1617572-0
JMGSCD-6LW=M39016/42-050L



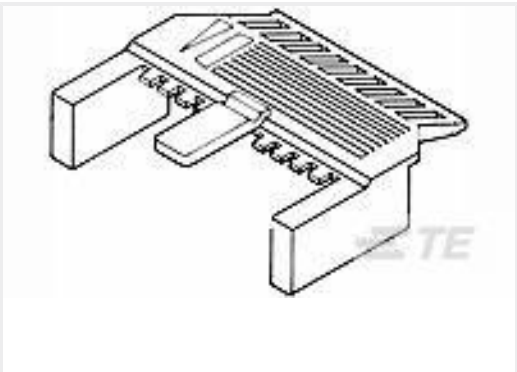
TE Part #1623978-3
SC15-10-1045-10 100UH AMMO 1000



TE Part #3-1879193-7
RN 0805 160K 0.1% 10PPM 1K RL



TE Part #1-1617541-6
J1MSCT-18XLS=M28776/4-045L



TE Part #1-102537-3
30 AMPMODU MT COVER DR .100CL



TE Part #899173-004
LSS-81-16A

Documents

Product Drawings

50 50/50 GRID DR SMT RCPT VC

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_147384-5_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_147384-5_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_147384-5_D.3d_stp.zip

English

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Product Specifications

Application Specification

English

Agency Approvals

UL Report

English