

147381-5 ✓ ACTIVE

AMPMODU | AMPMODU 50/50 Grid

TE Internal #: 147381-5

PCB Mount Header, Vertical, Board-to-Board, 50 Position, 1.27 mm
[.05 in] Centerline, Fully Shrouded, Gold, Surface Mount, Black,
AMPMODU 50/50 Grid

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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

Electrical Characteristics

Operating Voltage	30 VAC
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Dimensions

Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	6.35 mm[.25 in]

Operation/Application

Assembly Process Feature	Vacuum Cover
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Packaging Features

Packaging Quantity	475
Packaging Method	Tape & Reel

Industry Standards

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

Body Features

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

Mechanical Attachment



Mating Alignment Type	Keyed
PCB Mount Retention Type	Hold-Down Post
PCB Mount Retention	With
Mating Alignment	With

Termination Features

Termination Post & Tail Diameter	.46 mm[.018 in] .03 in
Termination Method to PCB	Surface Mount

Contact Features

Contact Underplating Material	Nickel
Mating Pin Diameter	.46 mm[.018 in] 150 μin
Contact Shape & Form	Round
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material	Gold
Contact Type	Pin
Contact Current Rating (Max)	.5 A

Housing Features

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

Configuration Features

Connector Contact Load Condition	Selectively Loaded
Board-to-Board Configuration	Parallel
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2

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
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Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Other

EU RoHS Compliance	Not Compliant
EU ELV Compliance	Compliant with Exemptions

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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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	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

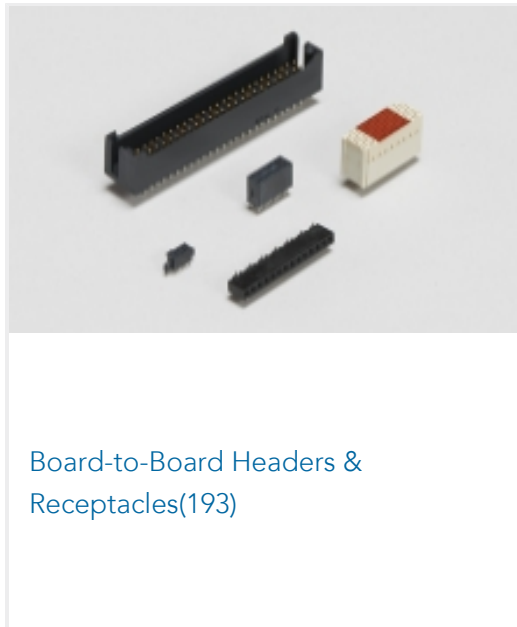


TE Part # 147384-5
50 50/50 GRID DR SMT RCPT VC

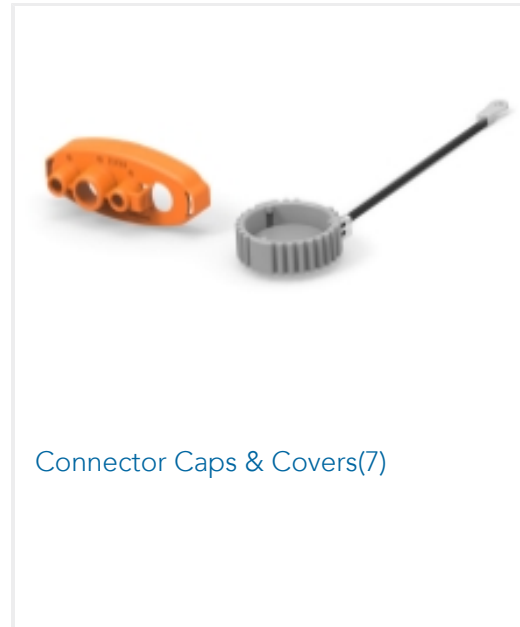


TE Part # 104652-5
50 50/50 GRID DRST SFMNT RCPT

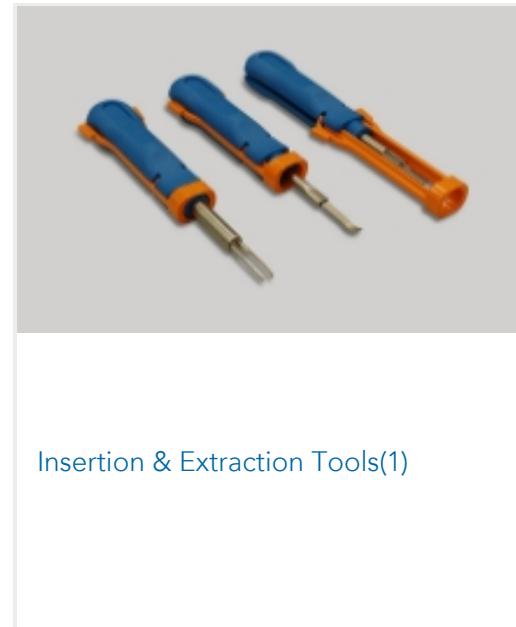
Also in the Series | AMPMODU 50/50 Grid



Board-to-Board Headers & Receptacles(193)



Connector Caps & Covers(7)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(193)



Ribbon Cable Connectors(21)

Customers Also Bought



TE Part #1-928836-2
MOD2 PIN WITH A-PIN L/P



TE Part #5-103911-3
60 SYSTEM 50 RCPT ASSY DRRA



TE Part #5-104076-2
60 SYS50 HDR DRST SHRD W/SL SN



TE Part #1-1825006-9
GDS10S04=DIP SW,SLIDE,SMT



TE Part #5146893-2
1FHR,84,30A/S,S,C,S08,09,10



TE Part #2176314-4
MELF SMA_A 180R 0.1% 15PPM 0102 0.3W



TE Part #3-1415020-1
PT570N20



TE Part #1-1437581-1
ASE22RL=AUTOSLIDE DP



Documents

Product Drawings

[50 50/50 HDR SMT.250 W/HD VC](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_147381-5_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_147381-5_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_147381-5_D.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English