2-103169-3 ACTIVE

AMPMODU | AMPMODU Headers

TE Internal #: 2-103169-3

PCB Mount Header, Vertical, Board-to-Board, 50 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder,

AMPMODU Headers

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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

Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

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

Electrical Characteristics

Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	750 Vrms

Body Features

Connector Profile	Standard
Primary Product Color	Black

Contact Features

Mating Square Post Dimension	.64 mm[.025 in]	
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 μm[100 – 200 μin]	
Contact Shape & Form	Square	



Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.762 μm[30 μin]
Contact Type	Pin
Contact Current Rating (Max)	3 A
Termination Features	
Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	3.18 mm[.125 in]
Termination Method to Printed Circuit Board	Through Hole - Solder
Mechanical Attachment	
Mating Retention	With
Mating Retention Type	Detent Window
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Housing Features	
Centerline (Pitch)	2.54 mm[.1 in]
Housing Material	Thermoplastic
Dimensions	
Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.4 mm[.055 in]
Usage Conditions	
Housing Temperature Rating	Standard
Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
Operation/Application	
Circuit Application	Signal
Industry Standards	
Agency/Standard	CSA



Approved Standards	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	32
Packaging Type	Tray

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	Not Compliant	
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 2023 (235) Candidate List Declared Against: JUNE 2022 (224) SVHC > Threshold: Pb (40% 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	Wave solder capable to 240°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

PCB Mount Header, Vertical, Board-to-Board, 50 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, AMPMODU Headers



TE Part # 4-87456-0 50 MODIV HSG DR MRKD .100CL	TE Part # 4-87631-1 50 MODIV HSG COMP DR .100 POL	TE Part # 4-87977-8 50 MODIV HSG COMP DR .100 POL	TE Part # 1-87733-4 50 MODIV HSG W/STR RLF DR MRKD
TE Part # 3-87456-9 50 MODIV HSG COMP DR .100CL	TE Part # 1-88179-2 050 HOUSING FFC RCPT DR 100CL	TE Part # 4-87631-2 50 MODIV HSG DR MRKD .100 POL	TE Part # 2-87977-1 50 MODIV HSG DR MRKD .100 POL
Also in the Series	AMPMODU Hea	ders	
PCB Connector Mounting(1)	PCB Connector Shrouds(1)	PCB Headers & Receptacles(4875)	PCB Latches, Locks & Retainers(1)
Wire-to-Board Connector Assemblies & Housings(5)	Wire-to-Board Connector Contacts(65)		
Customers Also B	ought		
TE Part #5-102802-4 50 MODII 2PC HDR DRRA SHRD, ROHS	TE Part #1-1735251-2 SKT,SODIMM,144P,1.8V (DDR2),ST	TE Part #5-533289-5 BOX II 2 ROW RECP ASSY 60 POS	TE Part #316998-7 CHAMP.050 REC HDR ASS'Y FMS TY

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TE Part #794076-2 18P MINI UMNL HDR W/O DH AU

TE Part #2071452-7 RZHH-1A4-D012-R0001 (TES) TE Part #2057140-1 HD-22 RCPT 62P VERT THD INS /BDLKS TE Part #1-5536504-4 2MM FB,ASY,192,SIG,HDR,EN,6.50, W /O Lube

Documents

Product Drawings

50 MODII HDR DRST SHRD .100CL

English

CAD Files

Customer View Model

ENG_CVM_CVM_2-103169-3_N.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-103169-3_N.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-103169-3_N.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Product Specifications

Product Specification

English