

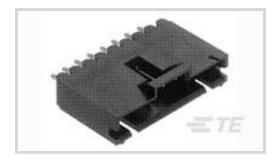
AMPMODU | AMPMODU MTE

TE Internal #: 1-103670-5 PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.54 mm [. 1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Signal, AMPMODU MTE

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Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: Wire-to-Board

Number of Positions: 16

Number of Rows: 1

Centerline (Pitch): 2.54 mm [.1 in]

PCB Mount Orientation: Vertical

Features

Product Type Features

Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No

Connector & Contact Terminates To	Printed Circuit Board
PCB Connector Assembly Type	PCB Mount Header
Configuration Features	
Number of Positions	16
Number of Rows	1
PCB Mount Orientation	Vertical
Electrical Characteristics	
Termination Resistance	15 mΩ
Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	600 V
Body Features	
Primary Product Color	Black
Contact Features	
Contact Mating Area Length	5.84 mm[.23 in]
Mating Square Post Dimension	.64 mm[.025 in]

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PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Signal, AMPMODU MTE



PC3 Contact Termination Area Plating Material Thickness 254 um[100 µm] Contact Mating Area Plating Material Inickness 381 um[15 µm] PC8 Contact Termination Area Plating Material Finish Matte Contact Shape & Form Square PC8 Contact Termination Area Plating Material TheLead Contact Base Material Cold Contact Muting Area Plating Material Cold Contact Termination Area Plating Material Cold Contact Muting Area Plating Material Cold Contact Type Pin Contact Current Rating (Mad 3 A Termination Post & Tall Dimension Aft mm[025 in] Termination Post & Tall Dimension Mating Alignment Type Mating Alignment Type Latched, Polarization Mating Retention Type Board Mourt Connector Mounting Type Board Mourt Nating Retention Type Board Mourt RCS Mount Alignment With RCS Mount Alignment With RCS Mount Alignment Starm[1 - 1] Connector Mounting Type		
PCB Contact Termination Area Plating Material Finish Matte Contact Shape & Form Square PCB Contact Termination Area Plating Material Tin-Lead Contact Base Material Gold Contact Mating Area Plating Material Gold Contact Mating Area Plating Material Gold Contact Type Pin Contact Current Kasing (Max) 3A Termination Post & Tall Dimension .44 mmj.025 inj Termination Post & Tall Dimension .33 mmj.13 inj Termination Method to Printed Circuit Roard Through Hole - Solder Mating Alignment Type Latched, Polarization Mating Retention Type Swaged Retention Tails Mating Retention Type Roderd Nouring Connector Mounting Type Roderd Nouring PCB Mourt Retention Type Mathe PCB Mourt Retention Type With PCB Mourt Retention Type Roderd Nouring PCB Mourt Retention With PCB Mourt Retention With PCB Mourt Retention Mating Alignment PCB Mourt Retention Matherite Connector Mounting Type Roard Mount PCB Mourt Alignment Mithout PCB Mourt Retention Stall Printers Unasing Material Stall Printers <td>PCB Contact Termination Area Plating Material Thickness</td> <td>2.54 μm[100 μin]</td>	PCB Contact Termination Area Plating Material Thickness	2.54 μm[100 μin]
Contact Shape & FormSquarePCB Centact Lemination Area Plating MaterialIn LeadContact Rase MaterialGoldContact Rase MaterialGoldContact Mating Area Plating MaterialGoldContact TypePnContact Gurrent Rating (Max)3.4Square Termination Post & Tail Dimension.44 nml,025 in]Termination Method to Printed Circuit BoardThrough Hole - SolderMating Alignment TypeLatched, PolanzationMating Alignment TypeSwaged Retention TailsMating Retention TypeBoard MountConnector Mounting TypeBoard MountPCB Mount Retention TypeWithPCB Mount RetentionWithPCB Mount RetentionWithPCB Mount RetentionWithPCB Mount RetentionWithPCB Mount RetentionSystemPCB Mount RetentionWithPCB Mount RetentionWithPCB Mount RetentionSystemPCB Mount RetentionSystem <t< td=""><td>Contact Mating Area Plating Material Thickness</td><td>.381 μm[15 μin]</td></t<>	Contact Mating Area Plating Material Thickness	.381 μm[15 μin]
PCB Contact Termination Area Plating Material Tin-Lead Contact Base Material Gold Contact Base Material Gold Contact Type Pin Contact Current Rating (Max) 3 A Termination Features	PCB Contact Termination Area Plating Material Finish	Matte
Contact Hase Material Brass Contact Mating Area Plating Material Gold Contact Qurrent Rating (Max) 3 A Termination Features Square Termination Post & Tail Dimension .64 mm(.025 in) Termination Post & Tail Length 3.3 mm(.13 in)	Contact Shape & Form	Square
Contact Mating Area Plating MaterialGoldContact TypePinContact Current Rating (Max)3 ATermination Features	PCB Contact Termination Area Plating Material	Tin-Lead
Contact TypePinContact Current Rating (Max)3 ATermination Features.44 mm[.025 in]Square Termination Post & Tail Dimension.44 mm[.025 in]Termination Post & Tail Length3.3 mm[.13 in]Termination Method to Printed Circuit RoardThrough Hole - SolderMating Alignment TypeLatched, PolarizationMating ResentionWithPCB Mount Retention TypeSwaged Retention TailsMating Retention TypeBoard MountConnector Mounting TypeBoard MountPCB Mount RetentionWithPCB Mount RetentionSimplementHousing MaterialThermoplasticCenterline (Pitch)2.54 mm[.1 in]DimensionsSimplementConnector Length43.18 mm[1.7 in]Connector Length1.57 mm[.062 in]PCB Thickness (Recommended)1.57 mm[.062 in]Usege ConditionsConnector Pitch PitchOperating Temperature Range-65 - 105 "Cl-85 - 221 "F]Operating Temperature Range-65 - 105 "Cl-85 - 221 "F]	Contact Base Material	Brass
Contact Current Rating (Max) 3 A Termination Features .44 mm[.025 in] Square Termination Post & Tail Dimension .44 mm[.025 in] Termination Post & Tail Length 3.3 mm[.13 in] Termination Method to Printed Circuit Board Through Hole - Solder Mating Alignment Type I atched, Polarization Mating Retention With PCB Mount Retention Type Board Mount Connector Mounting Type Board Mount Mating Alignment With PCB Mount Retention Type Board Mount Mating Alignment With PCB Mount Retention Type Board Mount Mating Alignment With PCB Mount Retention With PCB Mount Retention With PCB Mount Retention With PCB Mount Retention Without PCB Mount Retention Without PCB Mount Retention Starm[.1 in] During Material Thermoplastic Connector Length 43.18 mm[1.7 in] Connector Length 1.57 mm[.632 in] PCB Thickness (Recommended) 1.57 mm[.632 in] USB Thicknese	Contact Mating Area Plating Material	Gold
Termination Peatures Square Termination Post & Tail Dimension .41 mm[025 in] Termination Post & Tail Longth .3.3 mm[.13 in] Termination Method to Printed Circuit Board Through Hole - Solder Mating Alignment Type Latched, Polarization Mating Retention With PCB Mount Retention Type Swaged Retention Tails Mating Retention Type Hold Down Connector Mounting Type Board Mount PCB Mount Retention Type Board Mount PCB Mount Retention Type With PCB Mount Retention Type Board Mount PCB Mount Retention Type Board Mount PCB Mount Retention Without PCB Mount Retention Mating Retention PCB Mount Retention 1.57 mm[.1 in] Connector Length A.18 mm[.1 in] Connector Length A.18 mm[.1 in] Connector Height 1.57 mm[.062 in] PCB	Contact Type	Pin
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Termination Method to Printed Circuit Board Through Hole - Solder Mating Alignment Type Latched, Polarization Mating Retention Wth PCB Mount Retention Type Swaged Retention Tails Mating Retention Type Board Mount Connector Mounting Type Board Mount Connector Mounting Type Board Mount PCB Mount Alignment With PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention With PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention With PCB Mount Retention With PCB Insign Material Thermoplastic Connector Length 43.18 mm[1.7 in] Connector Length 1.57 mm[.062 in] PCB Thickness (Recommended) 1.57 mm[.062 in] PCB Thickness (Recommended) 45.105 °C[-85-221 °T] Operating Temperature Range -65 - 105 °C[-85-221 °T]	Square Termination Post & Tail Dimension	.64 mm[.025 in]
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Mating Alignment Type Latched, Polarization Mating Retention With PCB Mount Retention Type Swaged Retention Tails Mating Retention Type Board Mount Connector Mounting Type Board Mount Connector Mounting Type With PCB Mount Alignment Without PCB Mount Alignment Without PCB Mount Retention Without PCB Mount Retention Without PCB Mount Retention Without Housing Material Thermoplastic Connector Length Alith mn[1.7 in] Connector Length 1.57 mm[.062 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions Soperating Temperature Range Operating Temperature Range -65 – 105 °C[.85 – 221 °F]	Termination Method to Printed Circuit Board	Through Hole - Solder
Mating RetentionWithPCB Mount Retention TypeSwaged Retention TailsMating Retention TypeHold-DownConnector Mounting TypeBoard MountMating AlignmentWithPCB Mount AlignmentWithoutPCB Mount RetentionWithoutPCB Mount RetentionWithoutPCB Mount RetentionMiting AlignmentHousing MaterialThermoplasticCenterline (Pitch)2.54 mm[.1 in]Denetor LengthA.18 mm[1.7 in]Connector Length1.57 mm[.052 in]PCB Thickness (Recommended)1.57 mm[.052 in]Usage ConditionsJoperating Temperature RangeApplication4.5 - 105 °C[.85 - 221 °F]	Mechanical Attachment	
PCB Mount Retention Type Swaged Retention Tails Mating Retention Type Hold-Down Connector Mounting Type Board Mount Mating Alignment With PCB Mount Alignment Without PCB Mount Retention Normalization PCB Mount Retention 1000000000000000000000000000000000000	Mating Alignment Type	Latched, Polarization
Mating Retention Type Hold-Down Connector Mounting Type Board Mount Mating Alignment With PCB Mount Alignment Without PCB Mount Alignment Without PCB Mount Retention Without PCB Mount Retention Without Housing Features Thermoplastic Housing Material Safemal.1 in] Centerline (Pitch) 2.54 mm[.1 in] Dimensions Safemal.1 in] Connector Length 43.18 mm[1.7 in] Connector Length 1.57 mm[.062 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Operating Temperature Range -65 – 105 °C[.485 – 221 °F]	Mating Retention	With
Connector Mounting TypeBoard MountMating AlignmentWithPCB Mount AlignmentWithoutPCB Mount RetentionWithHousing FeaturesThermoplasticCenterline (Pitch)2.54 mm[.1 in]Connector Length43.18 mm[1.7 in]Connector Length1.55 pml.535 in]PCB Thickness (Recommended)1.57 mm[.062 in]Usage Conditions-65 – 105 °C[.85 – 221 °F]Operating Temperature Range-65 – 105 °C[.85 – 221 °F]	PCB Mount Retention Type	Swaged Retention Tails
Mating Alignment With PCB Mount Alignment Without PCB Mount Retention With Housing Features Themoplastic Housing Material Themoplastic Centerline (Pitch) 2.54 mm[.1 in] Dimensions Vithout Connector Length 43.18 mm[1.7 in] Connector Height 1.57 mm[.062 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions -65 – 105 °C[-85 – 221 °F] Operating Temperature Range -65 – 105 °C[-85 – 221 °F]	Mating Retention Type	Hold-Down
PCB Mount Alignment Without PCB Mount Retention Without Housing Features With Housing Material Thermoplastic Centerline (Pitch) 2.54 mm[.1 in] Dimensions Sing Features Connector Length 43.18 mm[1.7 in] Connector Length 13.59 mm[.535 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Upperating Temperature Range -65 – 105 °C[-85 – 221 °F]	Connector Mounting Type	Board Mount
PCB Mount Retention With Housing Features Thermoplastic I housing Material Thermoplastic Centerline (Pitch) 2.54 mm[.1 in] Dimensions Value Connector Length 43.18 mm[1.7 in] Connector Length 13.59 mm[.062 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions Value Operating Temperature Range -65 – 105 °C[-85 – 221 °F] Operation/Application Value	Mating Alignment	With
Housing Features I housing Material Thermoplastic Centerline (Pitch) 2.54 mm[.1 in] Dimensions 3.18 mm[1.7 in] Connector Length 43.18 mm[1.7 in] Connector Height 13.59 mm[.535 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions -65 – 105 °C[-85 – 221 °F] Operating Temperature Range -65 – 105 °C[-85 – 221 °F]	PCB Mount Alignment	Without
Housing Material Thermoplastic Centerline (Pitch) 2.54 mm[.1 in] Dimensions 43.18 mm[1.7 in] Connector Length 43.18 mm[1.7 in] Connector Height 13.59 mm[.535 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions -65 – 105 °C[-85 – 221 °F] Operating Temperature Range -65 – 105 °C[-85 – 221 °F]	PCB Mount Retention	With
Centerline (Pitch) 2.54 mm[.1 in] Dimensions 43.18 mm[1.7 in] Connector Length 43.18 mm[1.7 in] Connector Height 13.59 mm[.535 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions -65 – 105 °C[-85 – 221 °F] Operating Temperature Range -65 – 105 °C[-85 – 221 °F]	Housing Features	
Dimensions 43.18 mm[1.7 in] Connector Length 43.18 mm[1.7 in] Connector Height 13.59 mm[.535 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions -65 – 105 °C[-85 – 221 °F] Operating Temperature Range -65 – 105 °C[-85 – 221 °F]	Housing Material	Thermoplastic
Connector Length43.18 mm[1.7 in]Connector Height13.59 mm[.535 in]PCB Thickness (Recommended)1.57 mm[.062 in]Usage ConditionsOperating Temperature Range-65 – 105 °C[-85 – 221 °F]Operation/Application-65 – 105 °C[-85 – 221 °F]	Centerline (Pitch)	2.54 mm[.1 in]
Connector Height 13.59 mm[.535 in] PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions	Dimensions	
PCB Thickness (Recommended) 1.57 mm[.062 in] Usage Conditions -65 – 105 °C[-85 – 221 °F] Operation/Application -65 – 105 °C[-85 – 221 °F]	Connector Length	43.18 mm[1.7 in]
Usage Conditions Operating Temperature Range -65 – 105 °C[-85 – 221 °F] Operation/Application	Connector Height	13.59 mm[.535 in]
Operating Temperature Range -65 – 105 °C[-85 – 221 °F] Operation/Application	PCB Thickness (Recommended)	1.57 mm[.062 in]
Operation/Application	Usage Conditions	
	Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Signal, AMPMODU MTE



Circuit Application	Signal
	Signal
Industry Standards	
Approved Standards	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	12
Packaging Type	Box, Tube
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 2023
	Candidate List Declared Against: JUNE
	2023 (235)
	2023 (235) SVHC > Threshold:

handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Reflow solder capable to 260°C

Halogen Content

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

PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Signal, AMPMODU MTE





Also in the Series | AMPMODU MTE



Standard Rectangular Connectors(2)

Wire-to-Board Connector Assemblies & Housings(585)

Wire-to-Board Connector Contacts(32)

Customers Also Bought



PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Signal, AMPMODU MTE





Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-103670-5_T.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-103670-5_T.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-103670-5_T.3d_stp.zip

English

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Datasheets & Catalog Pages AMPMODU MTE INTERCONNECT SYSTEM

English

Product Specifications Application Specification

English

Instruction Sheets Instruction Sheet (U.S.)

English