

4-146494-0 ✓ ACTIVE

AMPMODU | AMPMODU Headers

TE Internal #: 4-146494-0

AMPMODU Headers, PCB Mount Header, Vertical, Board-to-Board, 80 Position, 2.54mm [.1in] Centerline, Unshrouded, Gold, Printed Circuit Board

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Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **80**

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

## Features

### Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Unshrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Number of Rows	2
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	80
Board-to-Board Configuration	Parallel

### Electrical Characteristics

Insulation Resistance	5000 MΩ
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### Contact Features

Contact Mating Area Length	8.38 mm[.33 in]
Mating Square Post Dimension	.64 mm[.025 in]
	100 – 200 μin
Contact Shape & Form	Square

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	.381 $\mu\text{m}$ [15 $\mu\text{in}$ ]
Contact Type	Pin
Contact Current Rating (Max)	3 A

### Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	2.54 mm[.1 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Mating Alignment	Without
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
Housing Color	Black
Housing Material	Thermoplastic

### Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
Stack Height	12.7 mm[.5 in]
PCB Thickness (Recommended)	1.4 mm[.055 in]

### Usage Conditions

Operating Temperature Range	-65 – 125 $^{\circ}\text{C}$ [-85 – 257 $^{\circ}\text{F}$ ]
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### Operation/Application

Assembly Process Feature	None
Circuit Application	Signal

### Industry Standards

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

### Packaging Features



Packaging Quantity	75
Packaging Method	Carton

### 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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Pb (13% in Component Part) <b>Article Safe Usage Statements:</b> 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	Not Low Halogen - contains Br or Cl > 900 ppm.
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



## Also in the Series | AMPMODU Headers



Automotive Headers(10)



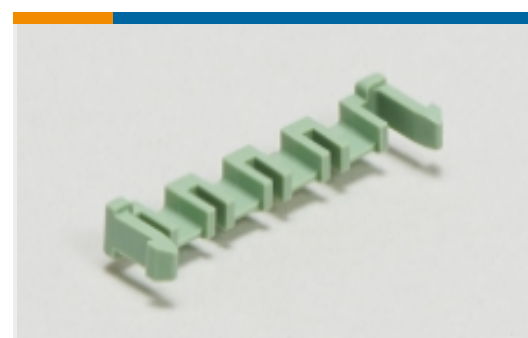
Board-to-Board Headers &amp; Receptacles(7077)



PCB Connector Mounting(1)



PCB Connector Shrouds(1)



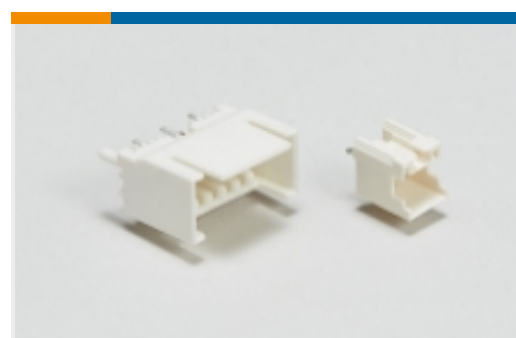
PCB Latches, Locks &amp; Retainers(2)



Wire-to-Board Connector Assemblies &amp; Housings(5)



Wire-to-Board Connector Contacts(66)



Wire-to-Board Headers &amp; Receptacles (79)

## Customers Also Bought

TE Part #1-1318115-6  
DYNAMIC 2000 REC AND TAB HSGTE Part #1393258-4  
Force Guided Power Relay, 2 PolesTE Part #1318109-1  
DYNAMIC 2000 CONTACTTE Part #1-1734598-0  
AMP HPI 1.25MM HEADERSTE Part #1623790-3  
Wirewound Resistor: Vertical MountTE Part #1-2199298-9  
DIP Socket: Low Profile, Stamped & Formed, Open, TinTE Part #YACT26MC04BNV00100  
Straight Plug D38999, C04 InsertTE Part #1-1825910-4  
FSM8JH=6MM TACT SWITCH, HIGH TEMP

## Documents

### Product Drawings

80 MODII HDR DRST UNSHRD STKG

English

### CAD Files

3D PDF

3D



**Customer View Model**

[ENG\\_CVM\\_CVM\\_4-146494-0\\_C.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_4-146494-0\\_C.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_4-146494-0\\_C.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

[AMPMODU Interconnection System](#)

English

[AMPMODU Interconnection System](#)