

6-103080-0  ACTIVE

#### AMPMODU | AMPMODU Headers

TE Internal #: 6-103080-0

PCB Mount Header, Vertical, Board-to-Board, 12 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Tin-Lead, 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: **12**

Number of Rows: **1**

### 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              | 12           |
| Number of Rows                   | 1            |
| 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

Contact Base Material Copper Alloy

Contact Mating Area Plating Material Tin-Lead

Contact Mating Area Plating Material Thickness 2.54 – 5.08 µm[100 – 200 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 3.3 mm[.13 in]

Termination Method to Printed Circuit Board Through Hole - Solder

#### Mechanical Attachment

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

Solder Process Feature Board Standoff

Circuit Application Signal

#### Industry Standards

|                        |                       |
|------------------------|-----------------------|
| Agency/Standard        | CSA                   |
| Approved Standards     | CSA LR7189, UL E28476 |
| UL Flammability Rating | UL 94V-0              |

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 16   |
| Packaging Type     | Tube |

### Product Compliance

For compliance documentation, visit the product page on [TE.com](http://TE.com)>

|   |  |
|---|--|
| EU RoHS Directive 2011/65/EU                  | Compliant  |
| EU ELV Directive 2000/53/EC                   | Compliant  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold  |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2023<br>(235)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.   |
| Solder Process Capability                     | Wave solder capable to 240°C   |

#### Product Compliance Disclaimer

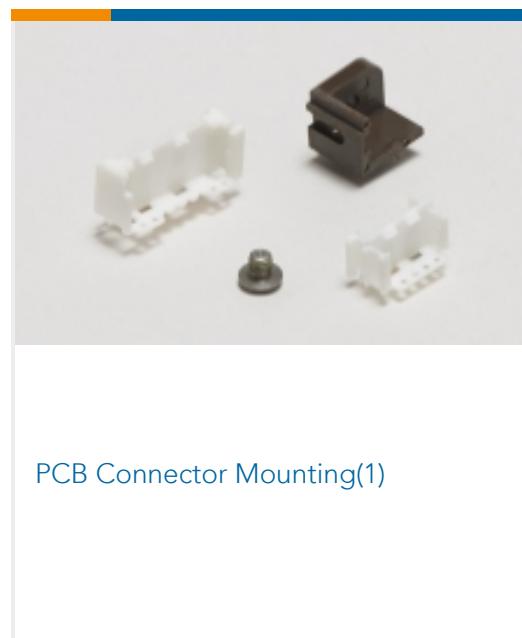
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



TE Part # 1-487769-0  
012 HOUSING FFC RCPT 100CL SR

## Also in the Series | AMPMODU Headers



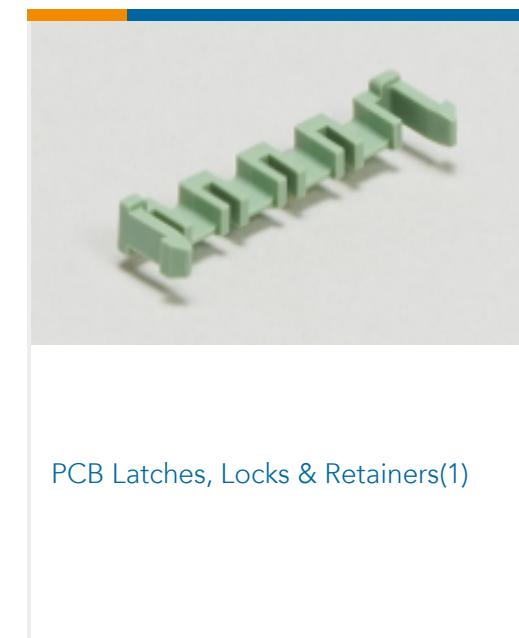
PCB Connector Mounting(1)



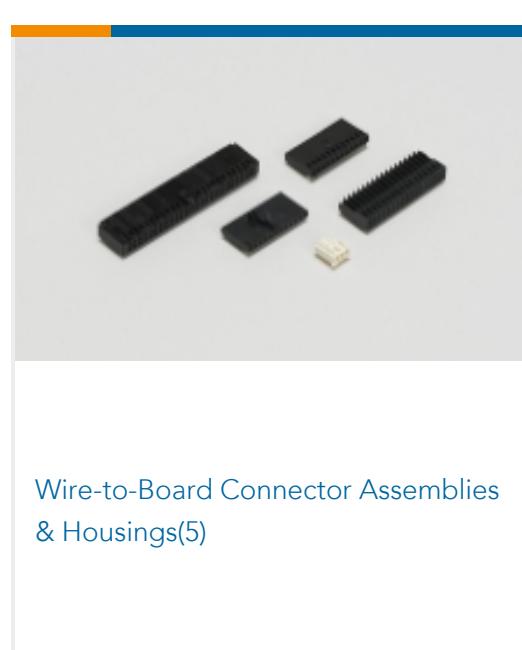
PCB Connector Shrouds(1)



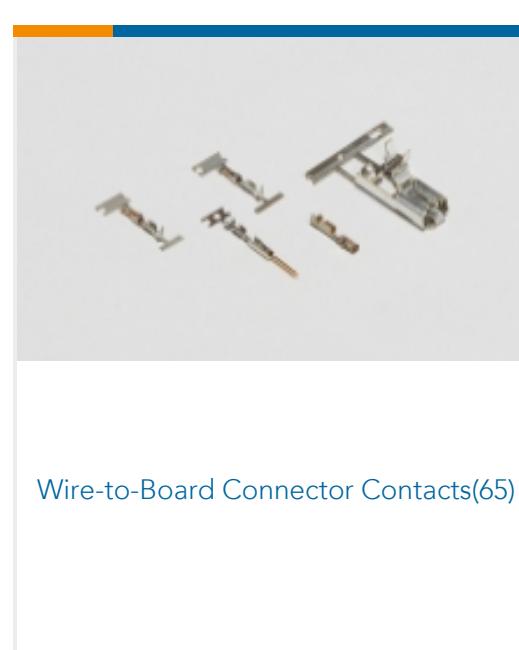
PCB Headers & Receptacles(4875)



PCB Latches, Locks & Retainers(1)



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



Wire-to-Board Connector Contacts(65)

## Customers Also Bought



TE Part #5747845-4  
15 MSFL RCPT RA 318 (IN,FM,BL)



TE Part #5050864-6  
SOCKET,MIN-SPR SN SER-3



TE Part #5103310-8  
A/L LOW PRO HDR 40P RA BLACK



TE Part #1-794072-0  
24P MINI UMNL HDR W/DH SN



TE Part #3-641209-4  
04P MTA156 HDR ASSY FL ST LF



TE Part #5406514-2  
MJ,RJ11,SMT,6/6,GRAY,13" REEL



TE Part #2-2172067-2  
M8 MALE R/A PNL.3P.PCB (AU)



TE Part #9-2176307-0  
RP 1E 0.1W 105K 0.1% 25PPM 5K RL

## Documents

### Product Drawings

[12 MODII HDR SRST SHRD .100CL](#)

English

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### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_6-103080-0\\_V.2d\\_dxf.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_6-103080-0\\_V.3d\\_igs.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_6-103080-0\\_V.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

[AMPMODU\\_INTERCONNECTION\\_SYSTEM\\_SECTIONS](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.