

1-103542-9 ✓ ACTIVE

AMPMODU | AMPMODU Headers

TE Internal #: 1-103542-9

PCB Mount Header, Vertical, Board-to-Board, 40 Position, 2.54 mm  
[.1 in] Centerline, Unshrouded, Gold, Through Hole - Press-Fit,  
AMPMODU Headers

[View on TE.com >](#)



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: **40**

Number of Rows: **2**

## 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

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	40
Number of Rows	2
Board-to-Board Configuration	Parallel

### Electrical Characteristics

Insulation Resistance	5000 M $\Omega$
Dielectric Withstanding Voltage (Max)	750 Vrms

### Body Features

Primary Product Color	Black
-----------------------	-------

### Contact Features

	100 – 200 $\mu$ m
--	-------------------



Contact Shape & Form	Square
Contact Underplating Material	Nickel
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	.76 $\mu\text{m}$ [30 $\mu\text{in}$ ]
Contact Type	Pin
Contact Current Rating (Max)	3 A

### Termination Features

Termination Post & Tail Length	6.35 mm[.25 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

### Mechanical Attachment

PCB Mount Retention Type	Action/Compliant Tail
Mating Alignment	Without
PCB Mount Retention	With
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)	1.57 mm[.062 in]

### Usage Conditions

Housing Temperature Rating	High
Operating Temperature Range	-55 – 125 $^{\circ}\text{C}$ [-67 – 257 $^{\circ}\text{F}$ ]

### Operation/Application

Circuit Application	Signal
---------------------	--------

### Industry Standards

UL Rating	Recognized
Agency/Standard	CSA, UL
Approved Standards	CSA LR16455, UL E28476



UL Flammability Rating

UL 94V-0

**Packaging Features**

Packaging Type

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: JUNE 2023 (235)  
 Candidate List Declared Against: JUNE 2022 (224)  
 SVHC > Threshold:  
 Pb (40% in component)

**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

Not Yet Reviewed for halogen content

Solder Process Capability

Not applicable for 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**





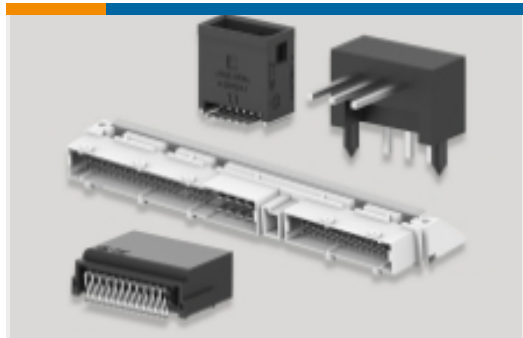
## Also in the Series | AMPMODU Headers



PCB Connector Mounting(1)



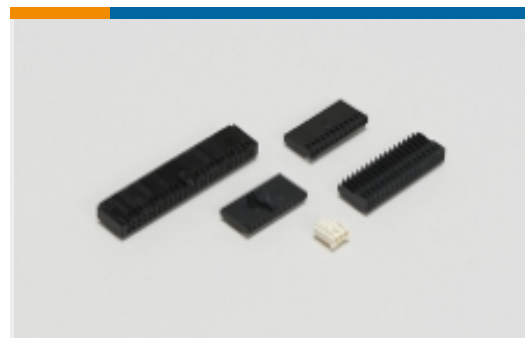
PCB Connector Shrouds(1)



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 #2176070-8  
3521 20R 1% 2W



TE Part #2-5332095-4  
Mini Spring Sockets: Closed Bottom, 3A



TE Part #1623401-1  
CRG0805 ZEROHM



TE Part #3-1614881-6  
CPF 0603 10R 0.1% 25PPM 5K RL



TE Part #1676182-3  
RN 0805 13K7 0.1% 10PPM 5KRL



TE Part #1-2176329-5  
CRGP 1210 150R 1%

## Documents

### Product Drawings

40 MODII HDR DRST UNSHRD A/PIN

English

### CAD Files

3D PDF

English



**Customer View Model**

[ENG\\_CVM\\_1-103542-9\\_J.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_1-103542-9\\_J.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_1-103542-9\\_J.2d\\_dxf.zip](#)

English

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

**Product Specifications**

[Application Specification](#)

English