

280509-1

✓ ACTIVE

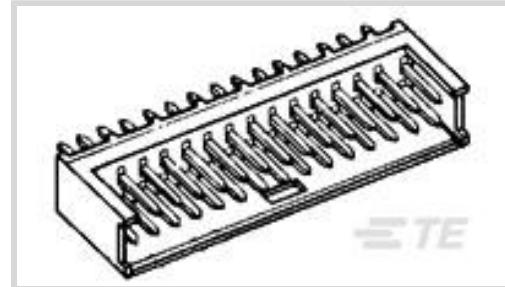
## AMPMODU | AMPMODU Headers

TE Internal #: 280509-1

PCB Mount Header, Vertical, Board-to-Board, 18 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder, AMPMODU Headers

[View on TE.com >](#)

Connectors &gt; PCB Connectors &gt; PCB Headers &amp; Receptacles

PCB Connector Assembly Type: **PCB Mount Header**PCB Mount Orientation: **Vertical**Connector System: **Board-to-Board**Number of Positions: **18**Number of Rows: **2****Features****Product Type Features**

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

**Configuration Features**

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	18
Number of Rows	2

**Electrical Characteristics**

Dielectric Withstanding Voltage (Max)	750 V
---------------------------------------	-------

**Body Features**

Connector Profile	Standard
Primary Product Color	Black

**Contact Features**

PCB Contact Termination Area Plating Material Thickness	3.5 $\mu$ m
Contact Shape & Form	Round

Contact Mating Area Plating Material Finish	Bright
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Tin
Contact Type	Pin

#### Termination Features

Termination Post & Tail Length	3.5 mm [.138 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

#### Mechanical Attachment

Mating Retention	With
Panel Mount Feature	Without
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]
--------------------	-----------------

#### Usage Conditions

Housing Temperature Rating	Standard
Operating Temperature Range	-65 - 105 °C [-85 - 221 °F]

#### Operation/Application

Circuit Application	Power & Signal
---------------------	----------------

#### Packaging Features

Packaging Quantity	400
Packaging Method	Box

#### 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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

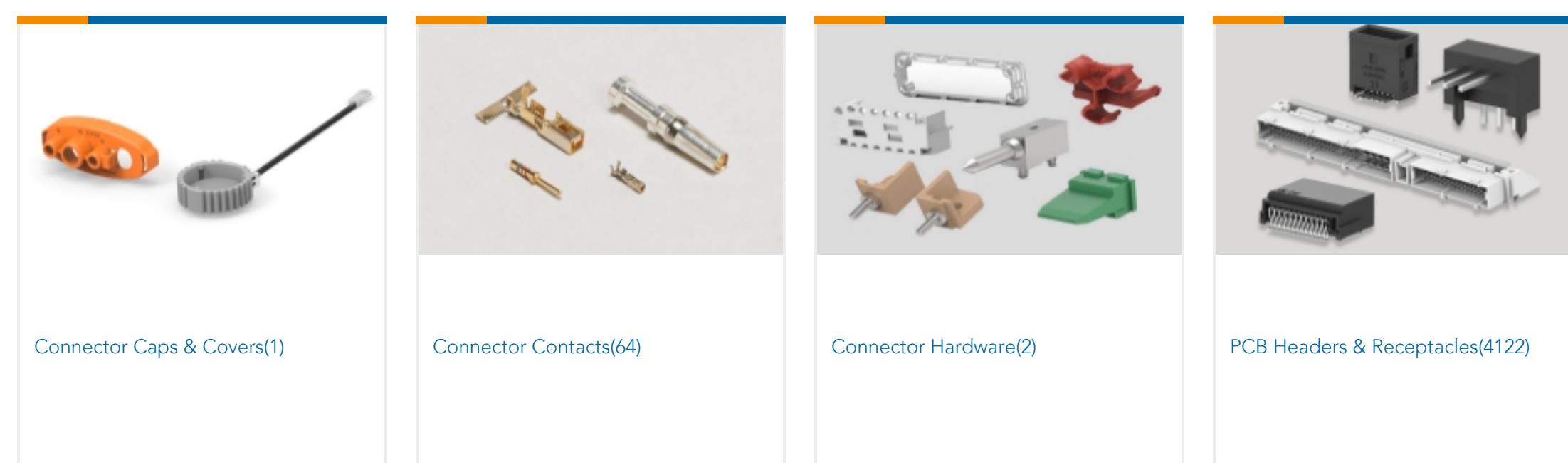
## Product Compliance Disclaimer

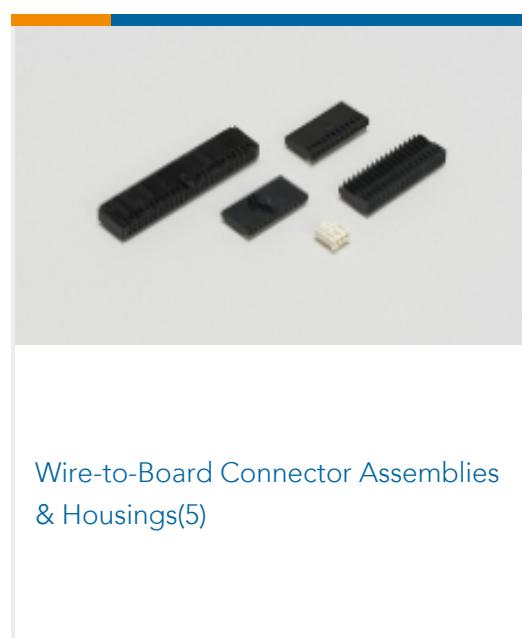
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

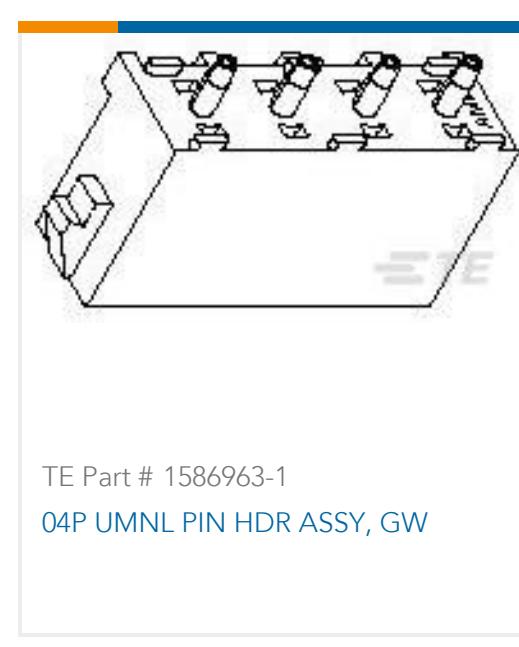
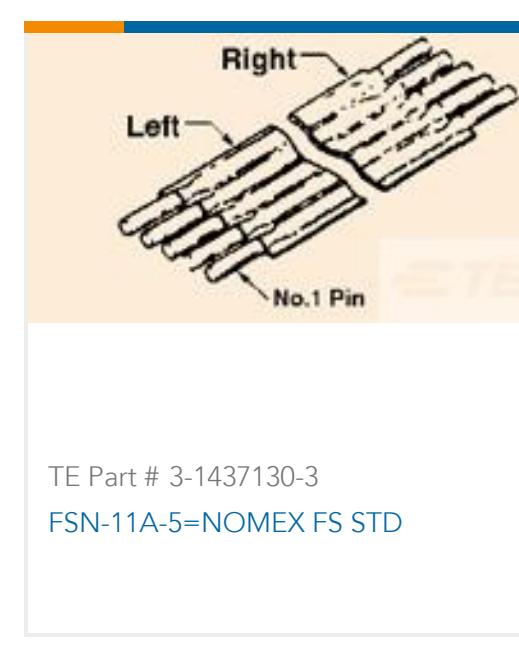


## Also in the Series | AMPMODU Headers



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

## Customers Also Bought

TE Part # 2-2176231-0  
3522 62R 1% 3WTE Part # 280373-1  
8P AMPMODU II SHRD HDR, ST, TINTE Part # 5788336-1  
STD USB TYPE B, VERTICAL, T/HTE Part # 84984-6  
1mm FFC DIP V ASSY 6P NAT(TB)TE Part # 1571999-7  
ADP04S04=PIANO DIP SWITCHTE Part # 2176329-7  
CRGP 1210 33R 1%TE Part # 1586963-1  
04P UMNL PIN HDR ASSY, GWTE Part # 3-1437130-3  
FSN-11A-5=NOMEX FS STD

## Documents

### Product Drawings

#### BARRE MODU 2 2X 9

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_280509-1\\_S\\_c-280509-1-s.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_280509-1\\_S\\_c-280509-1-s.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_280509-1\\_S\\_c-280509-1-s.3d\\_stp.zip](#)

English

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

---

### Agency Approvals

UL

English