

280520-1

✓ ACTIVE

## AMPMODU | AMPMODU Headers

TE Internal #: 280520-1

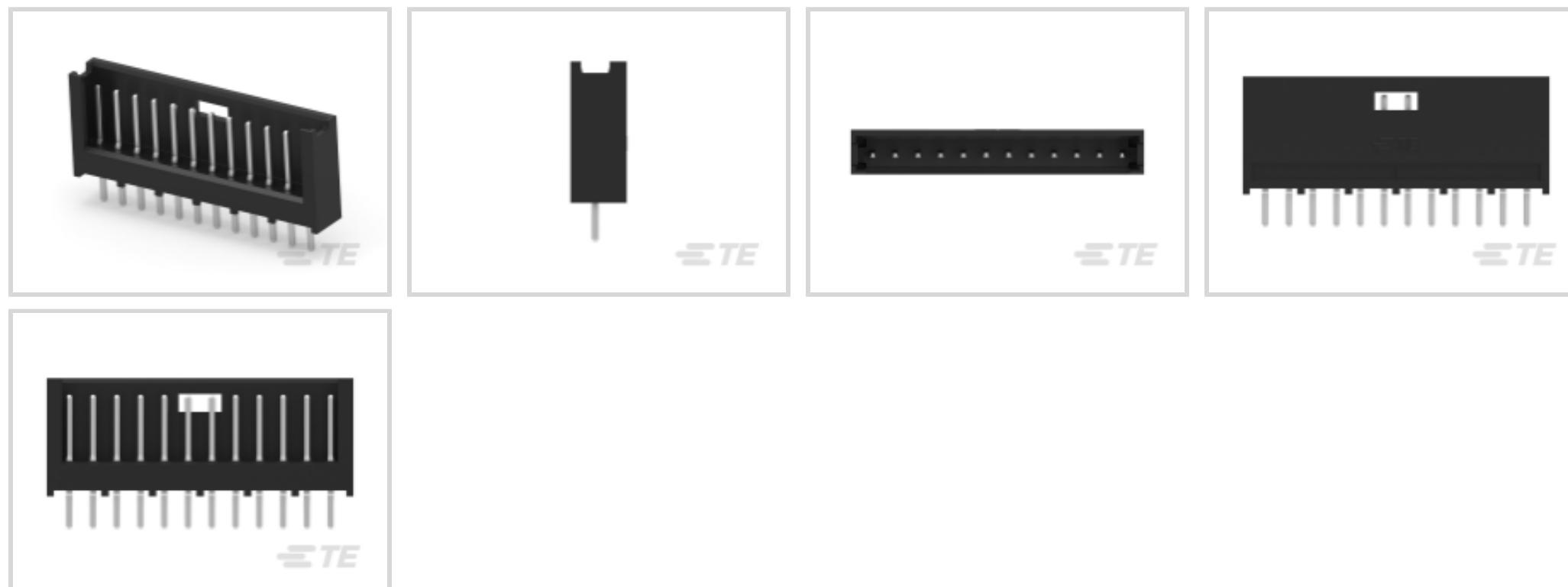
PCB Mount Header, Vertical, Board-to-Board, 12 Position, 2.54 mm

[.1 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder,

AMPMODU Headers

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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: **12**Number of Rows: **1****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              | 12           |
| Number of Rows                   | 1            |

**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 $\mu\text{m}$ |
| 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 | 500         |
| Packaging Type     | Box, Carton |

## 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                               | Not Low Halogen - contains Br or Cl > 900 ppm.   |
| Solder Process Capability                     | Wave solder capable to 265°C   |

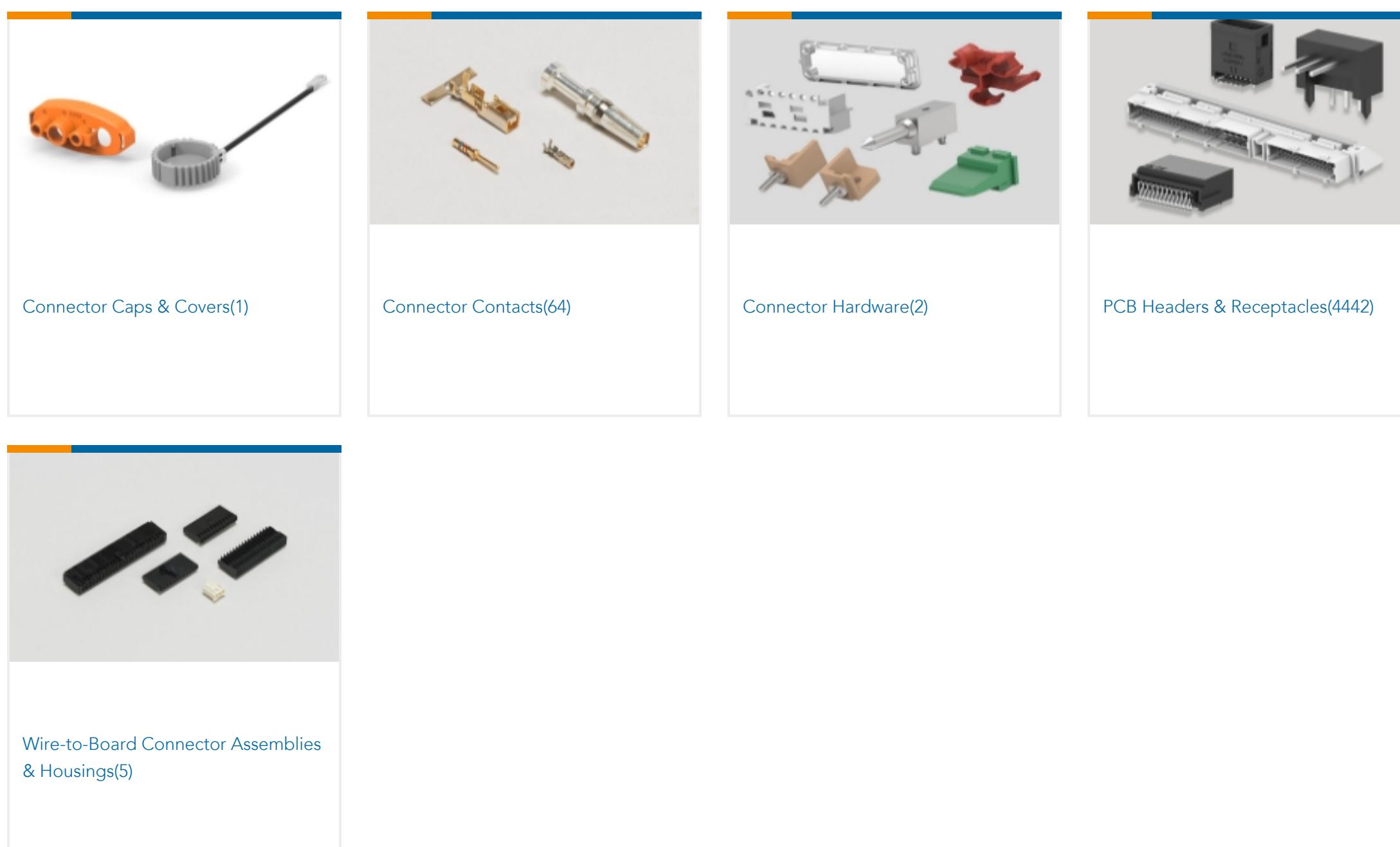
### Product Compliance Disclaimer

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>

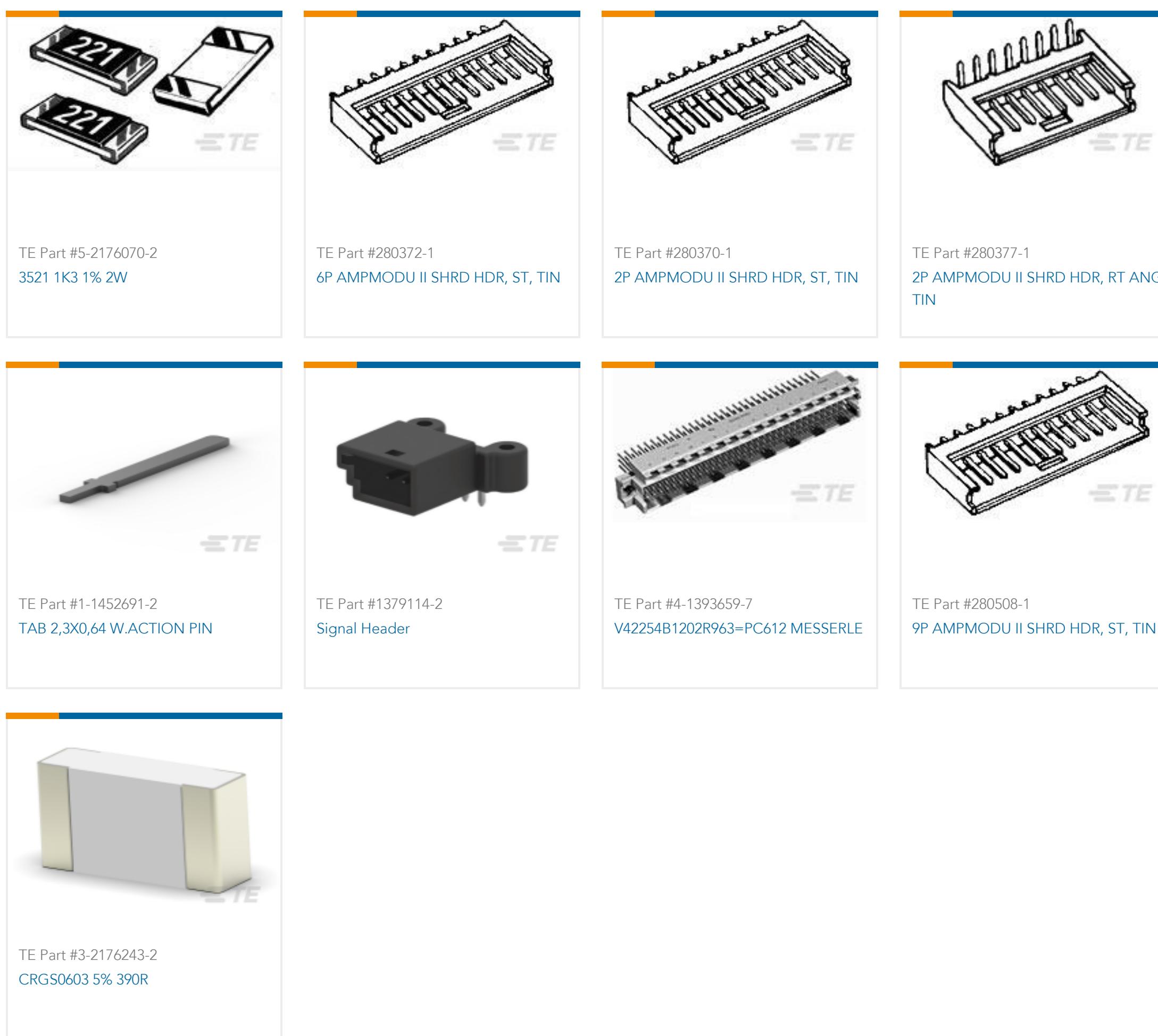
## Compatible Parts



## Also in the Series | AMPMODU Headers



## Customers Also Bought



## Documents

## CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_280520-1\\_U\\_c-280520-1-u.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_280520-1\\_U\\_c-280520-1-u.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_280520-1\\_U\\_c-280520-1-u.3d\\_stp.zip](#)

English

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

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## Product Environmental Compliance

[MD\\_280520-1\\_01252017839\\_dmtec](#)

English

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