

# 2MM-HSP-S03-VT-02-H-TB ✓ ACTIVE

AMPMODU | AMPMODU 2 mm

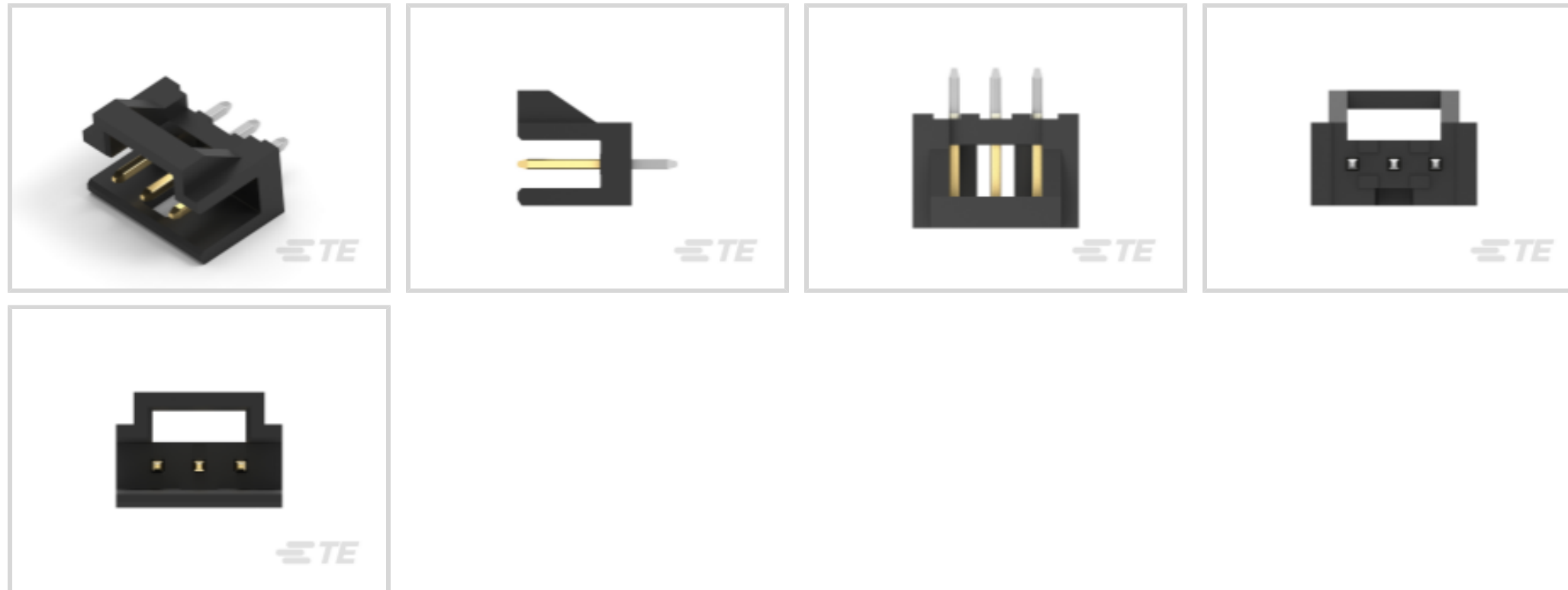
TE Internal #: 2823402-3

PCB Mount Header, Vertical, Board-to-Board / Wire-to-Board, 3 Position, 2 mm [.079 in] Centerline, Partially Shrouded, Gold, AMPMODU 2 mm

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Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Board-to-Board, Wire-to-Board**

Number of Positions: **3**

Centerline (Pitch): **2 mm [.079 in]**

Sealable: **No**

PCB Mount Orientation: **Vertical**

## Features

### Product Type Features

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

### Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Positions   | 3        |
| PCB Mount Orientation | Vertical |
| Number of Rows        | 1        |

### Electrical Characteristics

|                                       |                 |
|---------------------------------------|-----------------|
| Insulation Resistance                 | 1000 M $\Omega$ |
| Dielectric Withstanding Voltage (Max) | 650 V           |
| Operating Voltage                     | 250 VAC         |

### Body Features



|                       |          |
|-----------------------|----------|
| Connector Profile     | Standard |
| Primary Product Color | Black    |

### Contact Features

|   |                                   |
|---|-----------------------------------|
| Contact Mating Area Length                              | 4 mm[.157 in]                     |
| Mating Square Post Dimension                            | .5 mm[.02 in]                     |
| PCB Contact Termination Area Plating Material Thickness | 3 – 5 $\mu$ m[100 – 200 $\mu$ in] |
| Contact Layout  | Inline                            |
| Contact Type  | Pin                               |
| Contact Underplating Material Thickness                 | 1.27 $\mu$ m                      |
| Contact Mating Area Plating Material Thickness          | .76 $\mu$ m[30 $\mu$ in]          |
| PCB Contact Termination Area Plating Material Finish    | Matte                             |
| Contact Shape & Form                                    | Square                            |
| Contact Underplating Material                           | Nickel                            |
| PCB Contact Termination Area Plating Material           | Tin                               |
| Contact Base Material                                   | Phosphor Bronze                   |
| Contact Mating Area Plating Material                    | Gold                              |
| Contact Current Rating (Max)                            | 2 A                               |

### Termination Features

|   |                       |
|---|-----------------------|
| Square Termination Post & Tail Dimension    | .5 mm[.02 in]         |
| Termination Post & Tail Length              | 2.8 mm[.11 in]        |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

### Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Mating Retention        | With         |
| PCB Mount Alignment     | Without      |
| PCB Mount Retention     | Without      |
| Mating Retention Type   | Center Latch |
| Connector Mounting Type | Board Mount  |

### Housing Features

|                    |                              |
|--------------------|------------------------------|
| Housing Material   | Liquid Crystal Polymer (LCP) |
| Centerline (Pitch) | 2 mm[.079 in]                |

### Dimensions

|                  |               |
|------------------|---------------|
| Connector Length | 8 mm[.315 in] |
|------------------|---------------|



|                             |                 |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
|-----------------------------|-----------------|

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Housing Temperature Rating  | High                       |
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |

### Operation/Application

|                        |                |
|------------------------|----------------|
| Solder Process Feature | Board Standoff |
| Circuit Application    | Signal         |

### Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

### Packaging Features

|                |      |
|----------------|------|
| Packaging Type | Tube |
|----------------|------|

## Product Compliance

[For compliance documentation, visit the product page on 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 (235)<br>Candidate List Declared Against: JAN 2023 (233)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free  |
| Solder Process Capability                     | Reflow solder capable to 260°C   |

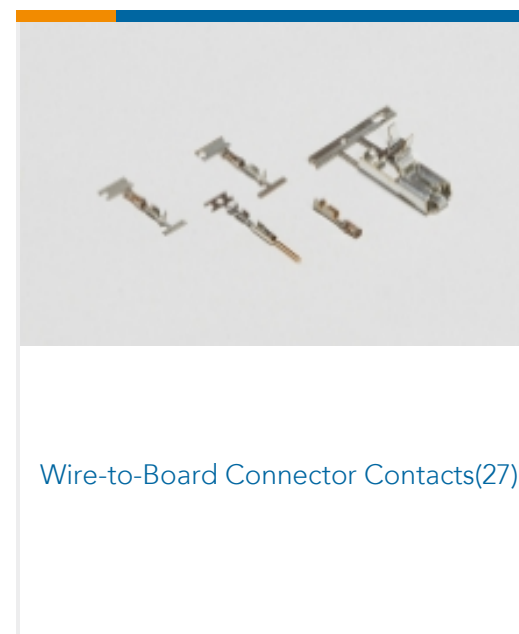
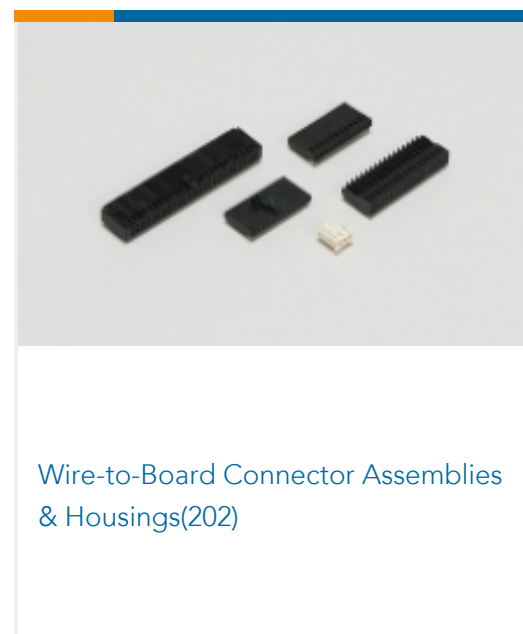
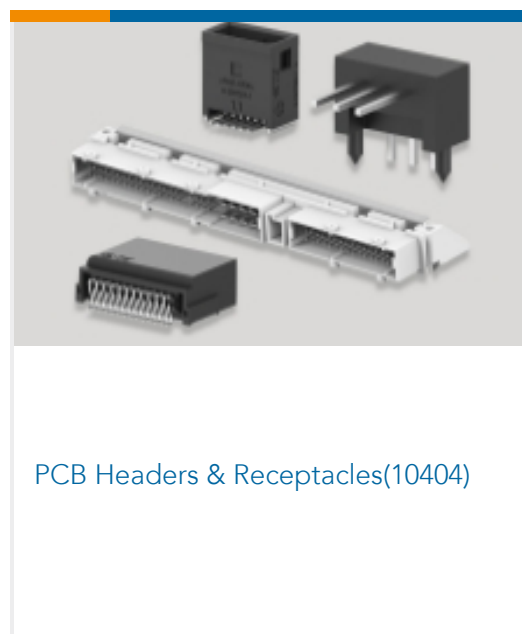
#### Product Compliance Disclaimer

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 2 mm



## Documents

### Product Drawings

[3P,2MM,PL HDR,SRVT,2.8,0.76AU,TB](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2823402-3\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2823402-3\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2823402-3\\_1.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[AMPMODU 2mm interconnection system QRG](#)

English

[Flyer - AMPMODU 2mm Shrouded Header](#)

English



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**Product Specifications**

**Application Specification**

English

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**Agency Approvals**

**VDE Certificate**

English