

1-103916-7 ✓ ACTIVE

AMPMODU | AMPMODU System 50

TE Internal #: 1-103916-7

PCB Mount Header, Vertical, Board-to-Board, 100 Position, 1.27 mm [.05 in] Centerline, Unshrouded, Gold, Through Hole - Solder, AMPMODU System 50

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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: **100**

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              | 100          |
| Number of Rows                   | 2            |
| Board-to-Board Configuration     | Parallel     |

### Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Dielectric Withstanding Voltage (Max) | 500 VAC |
| Insulation Resistance                 | 5000 MΩ |



|                   |        |
|-------------------|--------|
| Operating Voltage | 30 VAC |
|-------------------|--------|

### Body Features

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

### Contact Features

|                              |                 |
|------------------------------|-----------------|
| Mating Square Post Dimension | .38 mm[.015 in] |
|------------------------------|-----------------|

|   |   |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 6.35 $\mu\text{m}$ [150 – 250 $\mu\text{in}$ ] |
|---|---|

|  |       |
|--|-------|
| PCB Contact Termination Area Plating Material Finish | Matte |
|--|-------|

|                      |                  |
|----------------------|------------------|
| Contact Shape & Form | Rectangular Post |
|----------------------|------------------|

|                               |        |
|-------------------------------|--------|
| 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) | 3.6 A |
|------------------------------|-------|

### Termination Features

|  |                 |
|--|-----------------|
| Round Termination Post & Tail Diameter | .38 mm[.015 in] |
|--|-----------------|

|                                |                |
|--------------------------------|----------------|
| Termination Post & Tail Length | 2.54 mm[.1 in] |
|--------------------------------|----------------|

|   |                       |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

### Mechanical Attachment

|                  |         |
|------------------|---------|
| Mating Alignment | Without |
|------------------|---------|

|                     |         |
|---------------------|---------|
| PCB Mount Retention | Without |
|---------------------|---------|

|                     |         |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

### Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 1.27 mm[.05 in] |
|--------------------|-----------------|

|                  |     |
|------------------|-----|
| Housing Material | LCP |
|------------------|-----|

### 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 -65 – 105 °C[-85 – 221 °F]

### Operation/Application

Circuit Application Signal

### Industry Standards

UL Rating Recognized

Agency/Standard CSA, UL

Approved Standards CSA LR7189, UL E28476

UL Flammability Rating UL 94V-0

### Packaging Features

Packaging Quantity 8

Packaging Type Box, Tube

### 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 Compliant with Exemptions

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 2022 (224)  
Candidate List Declared Against: JUNE 2022 (224)  
SVHC > Threshold:  
Pb (13% in Component Part)

**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 Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability Wave solder capable to 260°C

#### Product Compliance Disclaimer

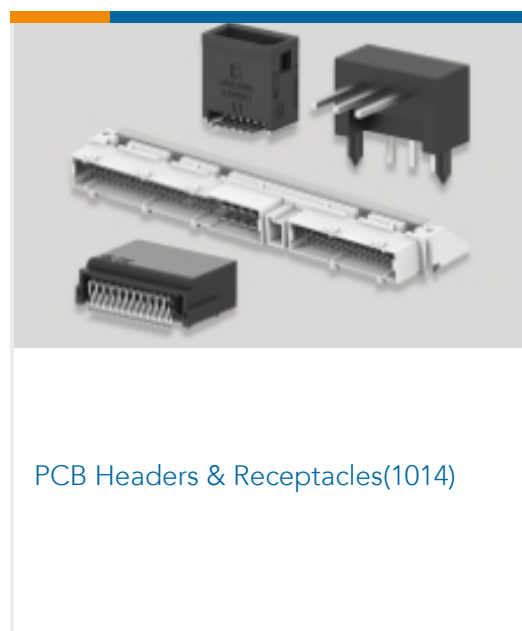
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 System 50



## Documents

### Product Drawings

100 SYSTEM 50 HDR DRST UNSHRD

English

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-103916-7\\_Z.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-103916-7\\_Z.3d\\_igs.zip](#)



English

### Customer View Model

[ENG\\_CVM\\_CVM\\_1-103916-7\\_Z.3d\\_stp.zip](#)

English

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

### Product Specifications

#### Application Specification

English

### Product Environmental Compliance

[MD\\_1-103916-7\\_0323201876\\_dmtec](#)

English

[MD\\_1-103916-7\\_0323201876\\_dmtec](#)

English