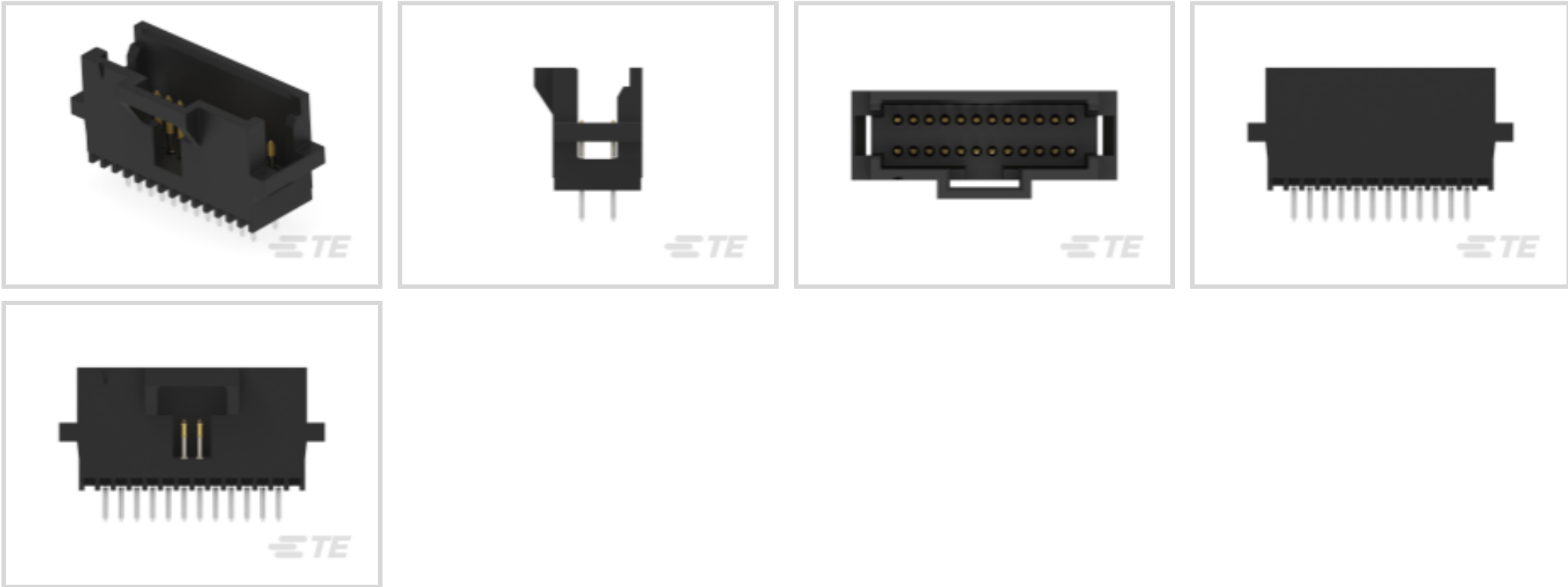




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Board-to-Board**

Number of Positions: **24**

Number of Rows: **2**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Assembly Type       | PCB Mount Header      |
| Connector System                  | Board-to-Board        |
| Header Type                       | Fully 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              | 24           |
| 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

|                       |          |
|-----------------------|----------|
| Connector Profile     | Standard |
| 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 µm[150 - 250 µin] |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| Contact Shape & Form                                    | Rectangular                   |
| Contact Underplating Material                           | Nickel                        |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Base Material                                   | Copper Alloy                  |
| Contact Mating Area Plating Material                    | Gold                          |
| Contact Mating Area Plating Material Thickness          | .76 µm[30 µin]                |
| 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 Retention        | With         |
| Mating Retention Type   | Latching     |
| Mating Alignment        | With         |
| Mating Alignment Type   | Polarization |
| 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

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

Industry Standards

|                                             |                       |
|---------------------------------------------|-----------------------|
| UL Rating                                   | Recognized            |
| Compatible With Agency/Standards Products   | CSA, UL               |
| Compatible With Approved Standards Products | CSA LR7189, UL E28476 |
| UL Flammability Rating                      | UL 94V-0              |

Packaging Features

|                    |           |
|--------------------|-----------|
| Packaging Quantity | 24        |
| Packaging Method   | Box, Tube |

Other

|                            |   |
|----------------------------|---|
| Position Locations Omitted | 0 |
|----------------------------|---|

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: JAN 2024 (240)<br>Candidate List Declared Against: JAN 2024 (240)<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                     | 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

TE Part # CAT-F439-R2435127  
FFC Receptacle Housing: 1.27mm

TE Part # 2-111196-8  
024 RCPT SYSTEM 50 30 DPLX

TE Part # 5-104078-9  
24 SYSTEM 50 RCPT ASSY DRST SN

TE Part # 5-104550-3  
24 SYS50 SURFMNT DRST RCPT SN

TE Part # 5-147378-9  
24 SYS50 SMT RCP DR SHD SN

Also in the Series | AMPMODU System 50

PCB Headers & Receptacles(1008)

Customers Also Bought



TE Part # T4131512051-000  
M12, REAR MOUNT, FEMALE, D, 5P, SOLDER WIRE

TE Part # 2-487937-0  
FFC Receptacle Housing: 1.27mm

TE Part # T4113501051-000  
M12, MALE, RA, D CODE, 5P, PG7, GOLD

TE Part # 5-104069-6  
40 sys 50 hdr drra shrd sn

TE Part # 5-5530843-4  
CONN SEC II 20 POS 100C/L

TE Part # 3-794620-6  
06P MICRO MNL ASSY, R/A, HDR, LF

TE Part # 6-104068-0  
16 SYSTEM 50 HDR DRST SHRD

TE Part # 1337708-2  
0.5MM CSA BRAID M3 -M3 150MM

Documents

Product Drawings

24 SYSTEM 50 HDR DRST SHRD

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_6-104068-1\_S.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_6-104068-1\_S.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6-104068-1\_S.3d\_stp.zip

English

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

Datasheets & Catalog Pages

AMPMODU\_INTERCONNECTION\_SYSTEM\_SECTION3AND4

English

Ribbon Cable Interconnect Solutions

English

Product Specifications

Application Specification

English

6-104068-1

PCB Mount Header, Vertical, Board-to-Board, 24 Position, 1.27 mm [.05 in] Centerline,  
Fully Shrouded, Gold, Through Hole - Solder, AMPMODU System 50

