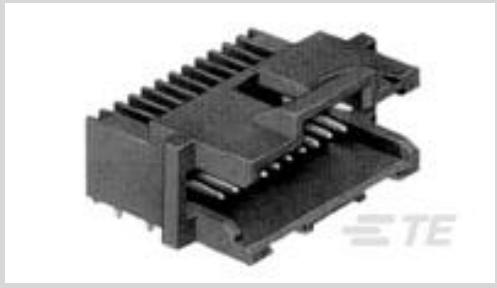




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**  
PCB Mount Orientation: **Right Angle**  
Connector System: **Board-to-Board**  
Number of Positions: **40**  
Number of Rows: **2**

Features

Product Type Features

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

Configuration Features

|                                  |               |
|----------------------------------|---------------|
| Connector Contact Load Condition | Fully Loaded  |
| Board-to-Board Configuration     | Perpendicular |
| PCB Mount Orientation            | Right Angle   |
| Number of Positions              | 40            |
| Number of Rows                   | 2             |

Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Operating Voltage                     | 30 VAC  |
| Insulation Resistance                 | 5000 MΩ |
| Dielectric Withstanding Voltage (Max) | 500 VAC |

Body Features

|                   |          |
|-------------------|----------|
| Connector Profile | Standard |
|-------------------|----------|



Primary Product ColorBlack

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| Contact Mating Area Plating Material Thickness          | .76 µm[30 µin]                |
| Mating Square Post Dimension                            | .38 mm[.015 in]               |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 6.35 µm[150 – 250 µin] |
| Contact Shape & Form                                    | Rectangular                   |
| Contact Base Material                                   | Copper Alloy                  |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Mating Area Plating Material                    | Gold (Au)                     |
| Contact Type                                            | Pin                           |
| Contact Current Rating (Max)                            | 3.6 A                         |

Termination Features

|                                  |                       |
|----------------------------------|-----------------------|
| Termination Post & Tail Diameter | .38 mm[.015 in]       |
| Termination Post & Tail Length   | 3.68 mm[.145 in]      |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

|                          |                |
|--------------------------|----------------|
| Mating Retention Type    | Latching       |
| Mating Retention         | With           |
| Mating Alignment Type    | Polarization   |
| PCB Mount Retention Type | Hold-Down Post |
| PCB Mount Retention      | With           |
| PCB Mount Alignment      | Without        |
| Connector Mounting Type  | Board Mount    |
| Mating Alignment         | With           |

Housing Features

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

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

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

Packaging Features

|                    |           |
|--------------------|-----------|
| Packaging Quantity | 16        |
| Packaging Method   | Box, 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: JAN 2025 (247)<br>Candidate List Declared Against: JUNE 2024 (241)<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<br>FFC Receptacle Housing: 1.27mm | TE Part # 5-104078-2<br>40 SYSTEM 50 RCPT ASSY DRST SN | TE Part # 5-104550-5<br>40 SYS50 SURFMNT DRST RCPT SN | TE Part # 2-111196-0<br>40 RCPT SYSTEM 50, LEAD FREE |

Also in the Series | AMPMODU System 50

|                                           |                                |                                  |                                          |
|-------------------------------------------|--------------------------------|----------------------------------|------------------------------------------|
|                                           |                                |                                  |                                          |
| Board-to-Board Headers & Receptacles(685) | PCB Headers & Receptacles(685) | Rectangular Power Connectors(47) | Wire-to-Board Headers & Receptacles (47) |

Customers Also Bought

|                                                              |                                                     |                                                   |                                                   |
|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
|                                                              |                                                     |                                                   |                                                   |
| TE Part #1-350943-0<br>03P UMNL HDR ASSY R/A 94VO            | TE Part #6-104069-3<br>26 sys 50 hdr drra shrd sn   | TE Part #2336713-2<br>SPRING FINGER 1.45H         | TE Part #1-111196-5<br>080 RCPT SYSTEM 50 30 DPLX |
|                                                              |                                                     |                                                   |                                                   |
| TE Part #1-1747981-1<br>Std HDMI, RA, SMT, Panel grd, Flange | TE Part #2-111196-0<br>40 RCPT SYSTEM 50, LEAD FREE | TE Part #5-104069-3<br>80 sys 50 hdr drra shrd sn | TE Part #5-103414-1<br>03 MODII HDR SRST SHRD LF  |



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-104477-4\_AD.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-104477-4\_AD.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-104477-4\_AD.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

Product Specifications

Application Specification

English