



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **50**

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     | Parallel     |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 50           |
| 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 Color | Black    |

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   | 2.54 mm[.1 in]        |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                    |                 |
|--------------------|-----------------|
| Housing Material   | Thermoplastic   |
| 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 (Max) | 105 °C[221 °F]             |
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |

Operation/Application

|                        |                |
|------------------------|----------------|
| Solder Process Feature | Board Standoff |
| 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 | 13        |
| 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 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<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 # 5-104078-5  
50 SYSTEM 50 RCPT ASSY DRST SN

TE Part # 2-111196-1  
50 RCPT SYSTEM 50, LEAD FREE

TE Part # 5-487937-0  
050 HOUSING FFC 50CL DR LATCH

TE Part # 5-104550-6  
50 SYS50 SURFMNT DRST RCPT SN

TE Part # 5-104744-7  
50 SYS 50 RCPT ASSY DRST SN

Also in the Series | AMPMODU System 50

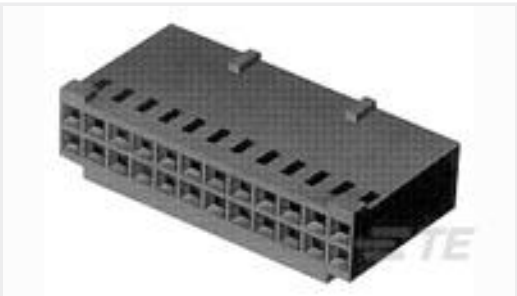
Board-to-Board Headers & Receptacles(685)

PCB Headers & Receptacles(685)

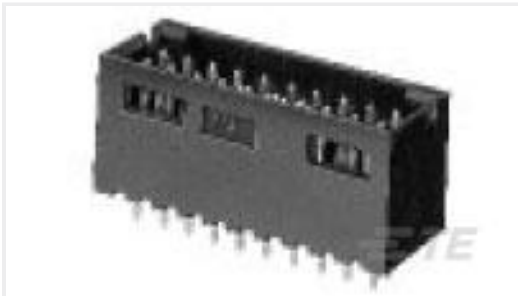
Rectangular Power Connectors(47)

Wire-to-Board Headers & Receptacles (47)

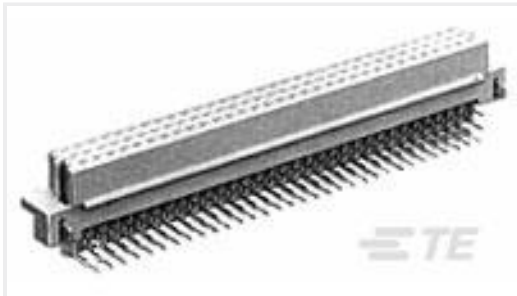
Customers Also Bought



TE Part #3-87977-4  
18 MODIV HSG COMP DR .100 POL



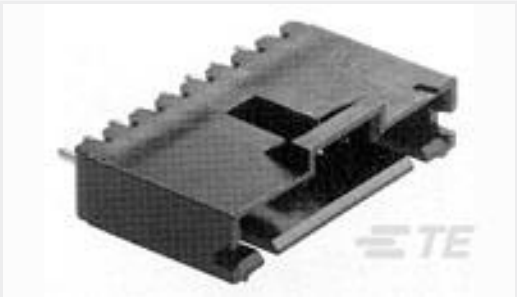
TE Part #5-103168-7  
18 MODII HDR DRST SHRD .100CL



TE Part #650461-4  
096 EURO TYPE R RECPT ASSY



TE Part #66331-7  
III+ SKT,24-20,15AU/FL,STRIP



TE Part #5-104363-5  
06 MTE HDR SRST LATCH .100CL



TE Part #5-104068-1  
20 SYSTEM 50 HDR DRST SHRD



TE Part #8-2176614-7  
EP 10W (SS) 3K9 5% BULK BOX



TE Part #5-103414-3  
05 MODII HDR SRST SHRD LF



TE Part #5-104068-3  
30 SYSTEM 50 HDR DRST SHRD



TE Part #2-2000676-0  
Keyed Guide Pin, Machined

Documents

Product Drawings

50 SYSTEM 50 HDR DRST SHRD

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-104068-5\_S.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-104068-5\_S.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-104068-5\_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