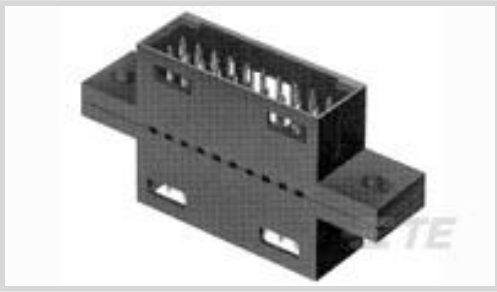




Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **20**

Centerline (Pitch): **2.54 mm [ .1 in ]**

Features

Product Type Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Number of Rows                   | 2            |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 20           |
| Board-to-Board Configuration     | Parallel     |

Electrical Characteristics

|                                       |          |
|---------------------------------------|----------|
| Insulation Resistance                 | 5000 MΩ  |
| Dielectric Withstanding Voltage (Max) | 750 Vrms |

Body Features

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

Contact Features

|                              |                 |
|------------------------------|-----------------|
| Mating Square Post Dimension | .64 mm[.025 in] |
|                              | 30 μin          |
| Contact Shape & Form         | Square          |



|                                                |                 |
|------------------------------------------------|-----------------|
| Contact Underplating Material                  | Nickel          |
| Contact Base Material                          | Phosphor Bronze |
| Contact Mating Area Plating Material           | Gold            |
| Contact Mating Area Plating Material Thickness | .762 μm[30 μin] |
| Contact Type                                   | Pin             |
| Contact Current Rating (Max)                   | 3 A             |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Square Termination Post & Tail Dimension    | .64 mm[.025 in]       |
| Termination Post & Tail Length              | 8.38 mm[.33 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

|                         |               |
|-------------------------|---------------|
| Mating Retention        | With          |
| Mating Retention Type   | Detent Window |
| Mating Alignment        | With          |
| Mating Alignment Type   | Polarization  |
| PCB Mount Retention     | Without       |
| PCB Mount Alignment     | Without       |
| Connector Mounting Type | Panel Mount   |

Housing Features

|                    |                |
|--------------------|----------------|
| Centerline (Pitch) | 2.54 mm[.1 in] |
| Housing Color      | Black          |
| Housing Material   | Nylon-GF       |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Row-to-Row Spacing          | 2.54 mm[.1 in]   |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Housing Temperature Rating  | Standard                   |
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

|                    |                       |
|--------------------|-----------------------|
| Approved Standards | CSA LR7189, UL E28476 |
|--------------------|-----------------------|



|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
| CSA Certified          | Yes      |
| CSA File Number        | LR7189   |
| UL File Number         | E28476   |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 48   |
| Packaging Method   | Tray |

Other

|         |                                 |
|---------|---------------------------------|
| Comment | Mates with Mod. IV (both sides) |
|---------|---------------------------------|

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 2021 (211)<br>Candidate List Declared Against: JAN 2021 (211)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.                                                                        |
| Solder Process Capability                     | Wave solder capable to 240°C                                                                                                  |

Product Compliance Disclaimer

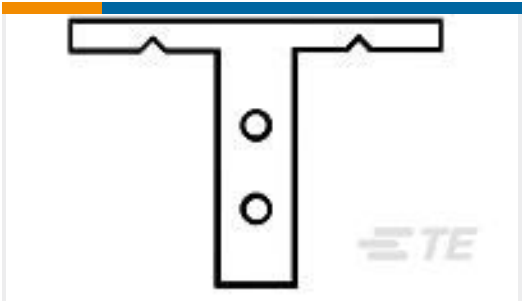
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 6-534206-0  
20 MODII VRT DR CE 100/115



TE Part # 87743-1  
MODII KEYED BARRIER INSERT

Also in the Series | AMPMODU Headers



Automotive Headers(10)



Board-to-Board Headers & Receptacles(7077)



PCB Connector Mounting(1)



PCB Connector Shrouds(1)



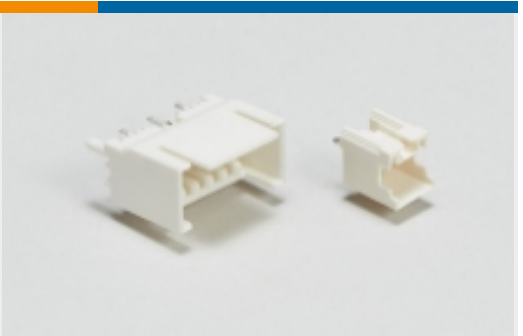
PCB Latches, Locks & Retainers(2)



Wire-to-Board Connector Assemblies & Housings(5)

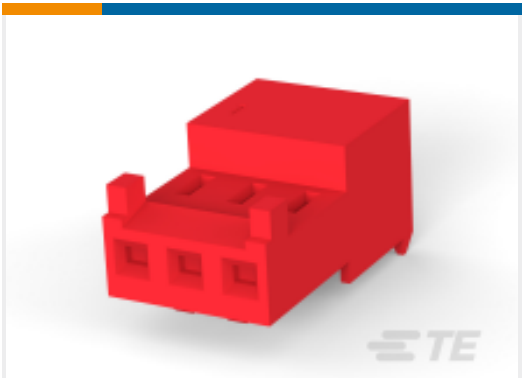


Wire-to-Board Connector Contacts(66)



Wire-to-Board Headers & Receptacles (79)

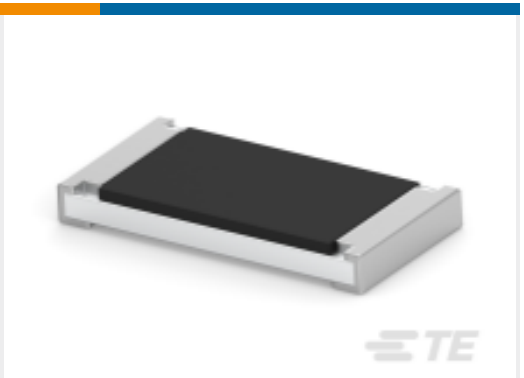
Customers Also Bought



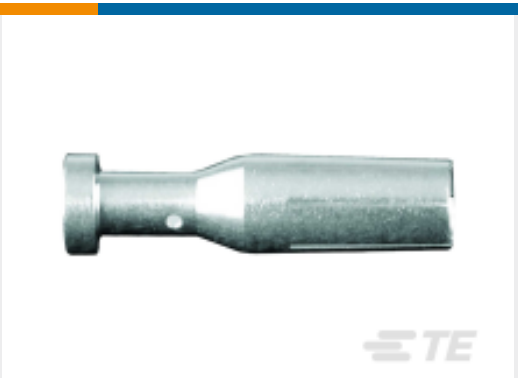
TE Part #3-643815-2  
Nylon Tin Plated Receptacle: 2.54mm, With Mating Alignment, MTA 100



TE Part #2322330-2  
CAT5 CABLE D4-STRAIGHT-D4 STRAIGHT



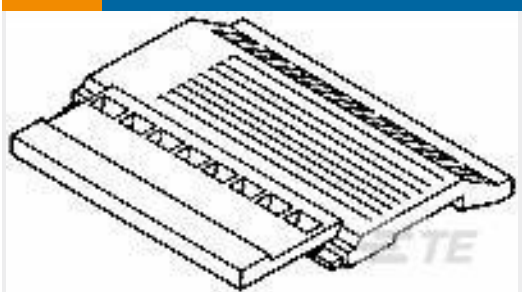
TE Part #3-1622824-8  
Thick Film Resistor: Current Sense



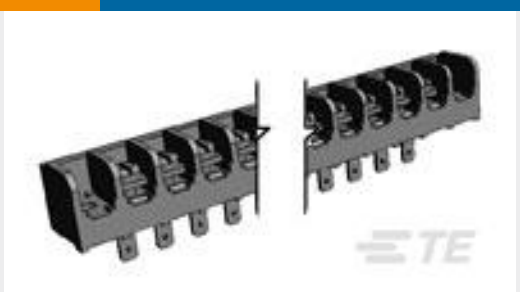
TE Part #T2040002010-000  
CMF-1.0



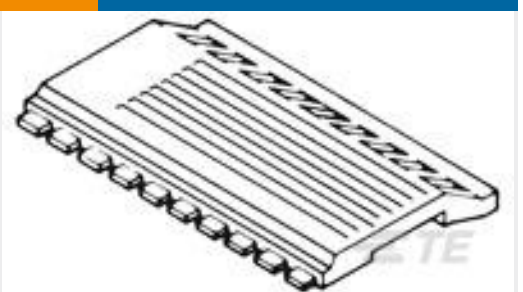
TE Part #1-87608-6  
40 MODII HDR DRST SHRD .100CL



TE Part #102540-6  
16 AMPMODU MT COVER DR .100CL



TE Part #3-1437659-0  
8QCV-10-006=8 SERIES



TE Part #2-102541-8  
60 AMPMODU MT COVER DR .100CL



Documents

Product Drawings

20 MODII HDR DRST SHRD .100CL

English

CAD Files

3D PDF

English

Customer View Model

ENG\_CVM\_87608-6\_G.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_87608-6\_G.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_87608-6\_G.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\_SECTION5

English

Product Environmental Compliance

TE Material Declaration

English

Agency Approvals

UL Report

English