



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **10**

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

|                            |          |
|----------------------------|----------|
| Number of Loaded Positions | 10       |
| PCB Mount Orientation      | Vertical |
| Number of Positions        | 10       |
| Number of Rows             | 2        |

Electrical Characteristics

|                        |         |
|------------------------|---------|
| Termination Resistance | 12 mΩ   |
| Insulation Resistance  | 5000 MΩ |



|                                       |         |
|---------------------------------------|---------|
| Dielectric Withstanding Voltage (Max) | 300 VAC |
|---------------------------------------|---------|

Body Features

|                                   |          |
|-----------------------------------|----------|
| Assembly Process Feature Material | Aluminum |
| Primary Product Color             | Black    |

Contact Features

|                                                         |                  |
|---------------------------------------------------------|------------------|
| Contact Underplating Material                           | Nickel           |
| Mating Pin Diameter                                     | .46 mm[.018 in]  |
| Contact Base Material                                   | Copper Alloy     |
| PCB Contact Termination Area Plating Material           | Tin              |
| PCB Contact Termination Area Plating Material Finish    | Matte            |
| PCB Contact Termination Area Plating Material Thickness | 3.81 μm[150 μin] |
| Contact Shape & Form                                    | Dual, Round      |
| Contact Layout                                          | Inline           |
| Contact Type                                            | Pin              |
| Contact Current Rating (Max)                            | .5 A             |

Termination Features

|                                  |                       |
|----------------------------------|-----------------------|
| Termination Post & Tail Diameter | .45 mm[.018 in]       |
| Termination Post & Tail Length   | 2.46 mm[.097 in]      |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

|                          |              |
|--------------------------|--------------|
| Mating Alignment Type    | Polarization |
| PCB Mount Retention Type | Hold-Down    |
| PCB Mount Alignment Type | Hold-Down    |
| PCB Mount Retention      | With         |
| PCB Mount Alignment      | With         |
| Connector Mounting Type  | Board Mount  |
| Mating Alignment         | With         |

Housing Features

|                       |                              |
|-----------------------|------------------------------|
| Mating Entry Location | Top                          |
| Housing Material      | LCP (Liquid Crystal Polymer) |
| Centerline (Pitch)    | 1.27 mm[.05 in]              |

Dimensions

|  |  |
|--|--|
|  |  |
|--|--|



|                             |                  |
|-----------------------------|------------------|
| Row-to-Row Spacing          | 1.27 mm[.05 in]  |
| Stack Height                | 6.35 mm[.25 in]  |
| Connector Width             | 5.72 mm[.23 in]  |
| Connector Height            | 5.73 mm[.23 in]  |
| Connector Length            | 9.44 mm[.32 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

|                          |              |
|--------------------------|--------------|
| Assembly Process Feature | Vacuum Cover |
| Circuit Application      | Signal       |

Industry Standards

|                                             |                       |
|---------------------------------------------|-----------------------|
| Compatible With Agency/Standards Products   | CSA, UL               |
| Compatible With Approved Standards Products | CSA LR7189, UL E28476 |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 4560 |
| Packaging Method   | 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: 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                     | Not reviewed for solder process capability                                                                                    |

Product Compliance Disclaimer

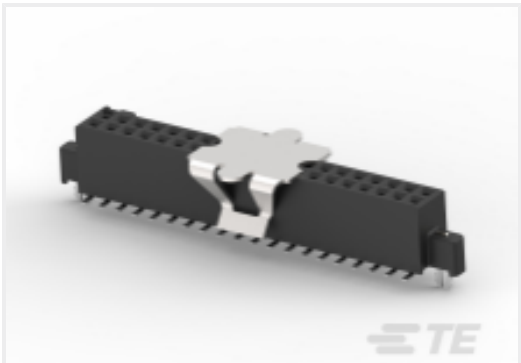


This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

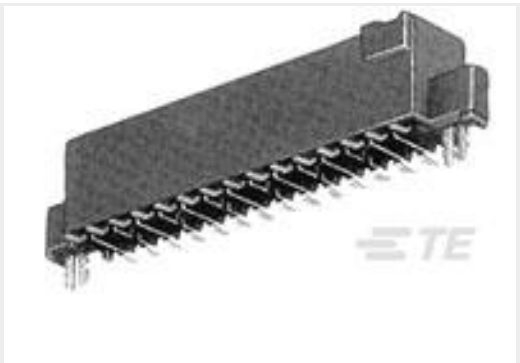
Compatible Parts



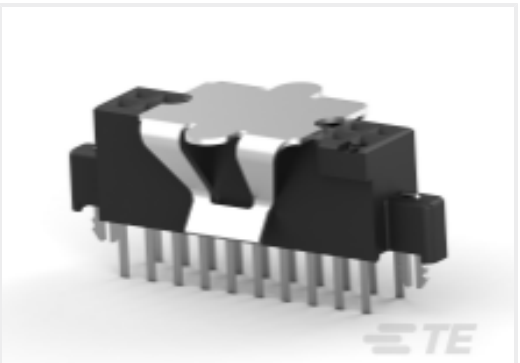
TE Part # 5-104893-1  
10 50/50 GRID CABLE RECPT LF



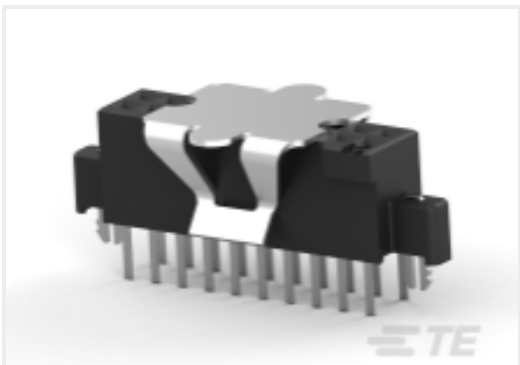
TE Part # 5-147384-1  
10 50/50 GRID SMT RCPT VC LF



TE Part # 5-147413-1  
10 50/50 GRID RCPT W/O HD SN



TE Part # 5-2267261-1  
10 50/50 GRID TH/PIp RCPT VC LF

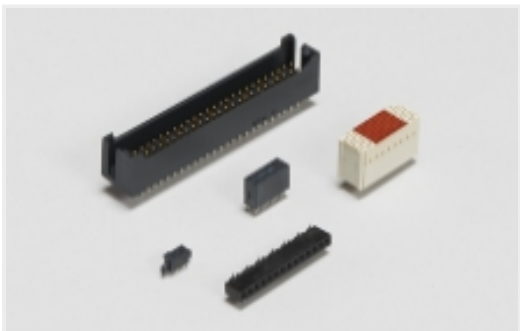


TE Part # 5-2267254-1  
10 50/50 GRID DRST TH RCPT



TE Part # 5-104652-1  
10 50/50 GRID DRST SFMNT RCPT

Also in the Series | AMPMODU 50/50 Grid



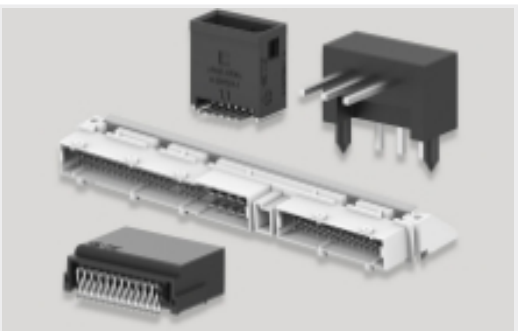
Board-to-Board Headers & Receptacles(193)



Connector Caps & Covers(7)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(193)

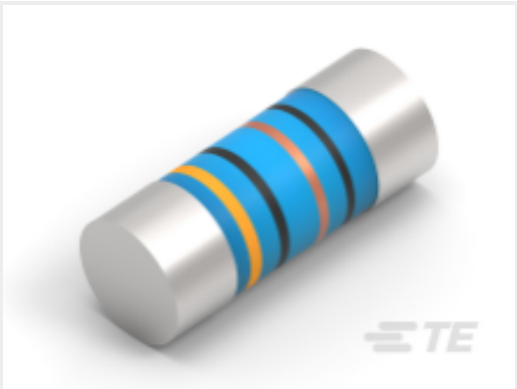


Rectangular Power Connectors(12)



Ribbon Cable Connectors(21)

Customers Also Bought



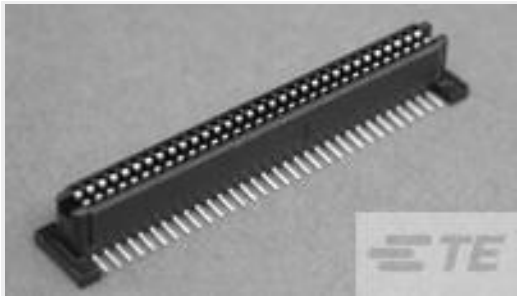
TE Part #2176314-4  
MELF SMA\_A 180R 0.1% 15PPM 0102 0.3W



TE Part #3-1415020-1  
PT570N20



TE Part #3-2319848-1  
END STACK DIP 10P G RECESS SEAL TUBE



TE Part #5146893-2  
1FHR,84,30A/S,S,C,S08,09,10



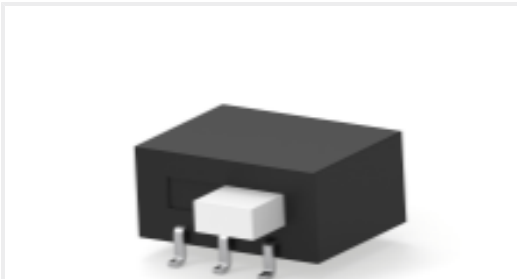
TE Part #5-103911-3  
60 SYSTEM 50 RCPT ASSY DRRA



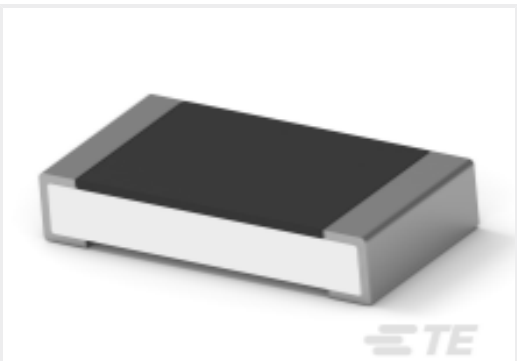
TE Part #5-104076-2  
60 SYS50 HDR DRST SHRD W/SL SN



TE Part #1-928836-2  
MOD2 PIN WITH A-PIN L/P



TE Part #1-1437581-1  
ASE22RL=AUTOSLIDE DP



TE Part #4-2176391-7  
RQ 1206 37K4 0.1% 10PPM 5K RL



TE Part #7-2176246-6  
CRGS2512 5% 1M8

Documents

Product Drawings

10 50/50 HDR DRST TH TIN

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-1571424-5\_1.2d\_dxf.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-1571424-5\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-1571424-5\\_1.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[AMPMODU 50/50 GRID THRU-HOLE](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English