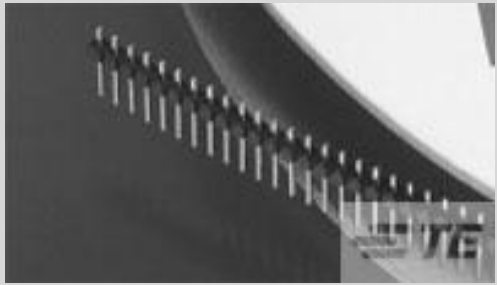




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **20**

Number of Rows: **2**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Type                | PCB Mount Header      |
| Connector System                  | Board-to-Board        |
| Header Type                       | Breakaway             |
| 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              | 20           |
| Number of Rows                   | 2            |

Body Features

|                       |          |
|-----------------------|----------|
| Connector Profile     | Standard |
| Primary Product Color | Black    |

Contact Features

|                                                |                               |
|------------------------------------------------|-------------------------------|
| Contact Underplating Material                  | Nickel                        |
| Contact Mating Area Plating Material Thickness | 2.54 – 5.08 μm[100 – 200 μin] |



|                                               |                 |
|-----------------------------------------------|-----------------|
| Mating Square Post Dimension                  | .64 mm[.025 in] |
|                                               | 100 – 200 µin   |
| Contact Shape & Form                          | Square          |
| Contact Base Material                         | Copper Alloy    |
| PCB Contact Termination Area Plating Material | Tin-Lead        |
| Contact Mating Area Plating Material          | Tin (Sn)        |
| Contact Type                                  | Pin             |
| Contact Current Rating (Max)                  | 3 A             |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 2.79 mm[.11 in]       |
| Square Termination Post & Tail Dimension | .64 mm[.025 in]       |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                    |                |
|--------------------|----------------|
| Housing Material   | Thermoplastic  |
| Centerline (Pitch) | 2.54 mm[.1 in] |

Dimensions

|                             |                 |
|-----------------------------|-----------------|
| Row-to-Row Spacing          | 2.54 mm[.1 in]  |
| PCB Thickness (Recommended) | 1.6 mm[.063 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

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



Packaging Features

|                    |       |
|--------------------|-------|
| Packaging Quantity | 25000 |
| Packaging Method   | Box   |

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 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 # 6-146762-0  
06 MODII RCPT VERT DR



TE Part # 5-535585-5  
06 MODIV VRT DR CE RCPT ASSY



TE Part # 5-535585-4  
04 MODIV VRT DR CE RCPT ASSY



TE Part # 5-146762-9  
04 MODII RCPT VERT DR



TE Part # 5-535585-3  
02 MODIV VRT DR CE RCPT ASSY

Also in the Series | AMPMODU Headers



Automotive Headers(1)



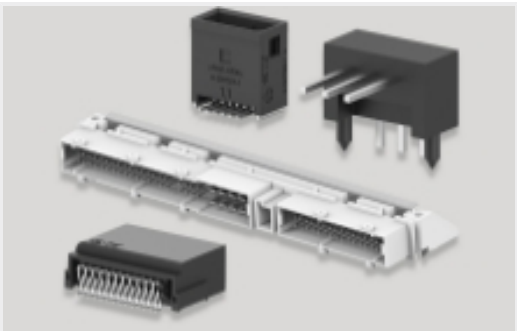
Board-to-Board Headers & Receptacles(1576)



Connector Contacts(47)



Connector Hardware(1)



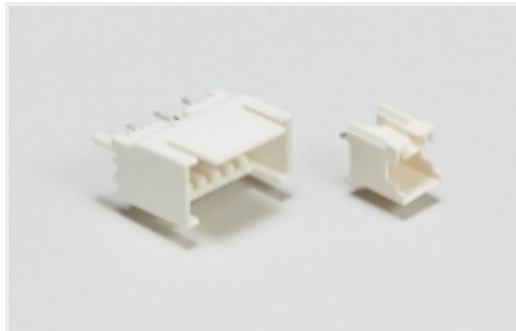
PCB Headers & Receptacles(1621)



Rectangular Power Connectors(43)

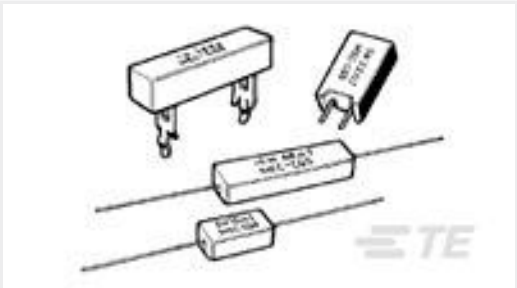


Wire-to-Board Connector Assemblies & Housings(5)



Wire-to-Board Headers & Receptacles (114)

Customers Also Bought



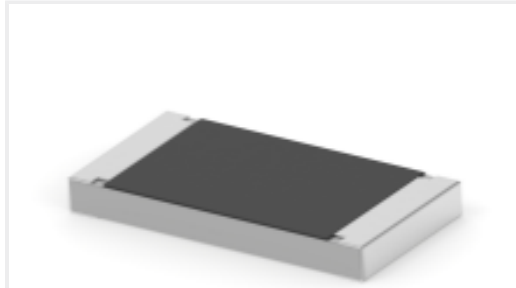
TE Part #6123795-5  
SQP10 220R 5% WIRE



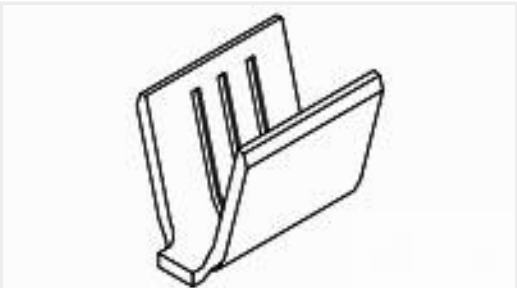
TE Part #178303-5  
6-P POST HDR D-3100D HORZ



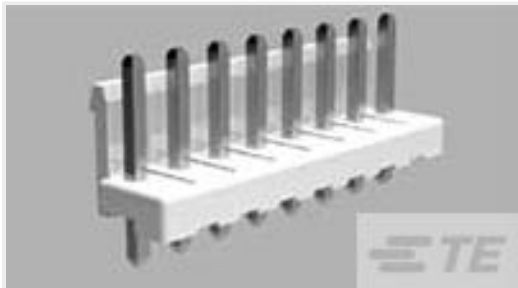
TE Part #641966-1  
03P UMNL PIN HDR ASSY 94VO



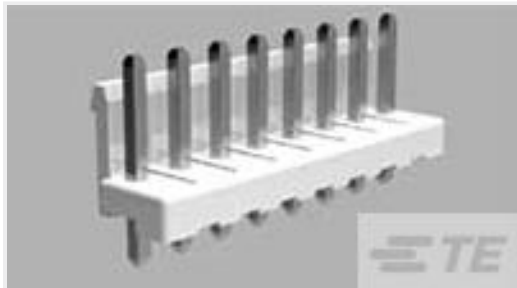
TE Part #2-2176350-0  
CRGCQ 2512 1K5 5%



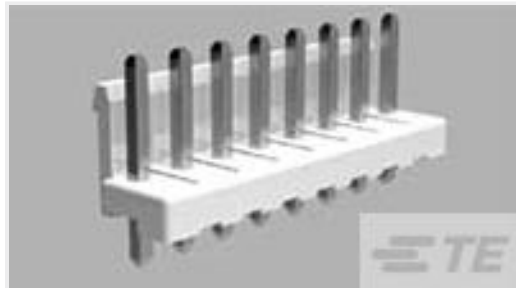
TE Part #61492-1  
SPLICE 2048-5250 .020 BR



TE Part #1-1123723-0  
3.96 EP HDR ASSY 10P(NATURAL)



TE Part #1-1318300-1  
3.96 EP HDR ASSY 11P NAT/TUBE



TE Part #1-1123723-9  
3.96 EP HDR ASSY 9P(NATURAL)



Documents

Product Drawings

B/A REELED DRST HDR ASSY, SN

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_146851-2\_F\_c-146851-2-f.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_146851-2\_F\_c-146851-2-f.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_146851-2\_F\_c-146851-2-f.3d\_stp.zip

English

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

Agency Approvals

UL

English