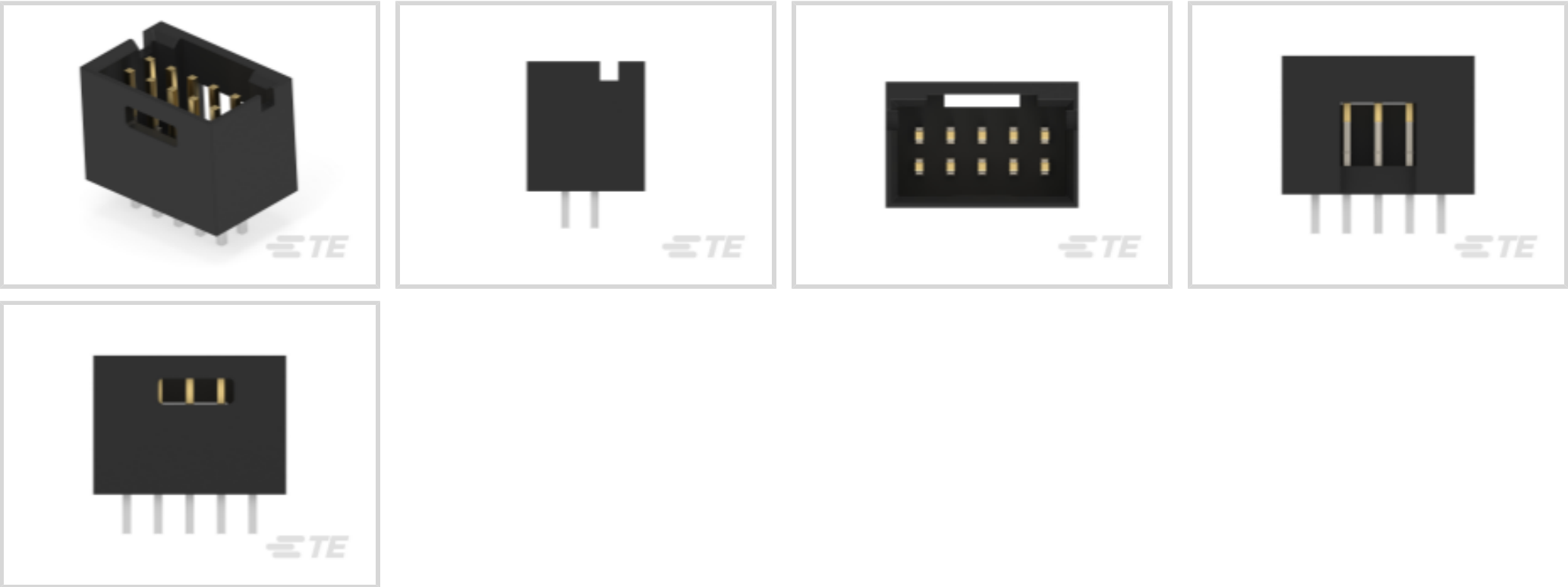




Connectors > PCB Connectors > PCB Headers & Receptacles



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

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector Shape                   | Rectangular           |
| PCB Connector Type                | PCB Mount Header      |
| Connector System                  | Board-to-Board        |
| Header Type                       | Fully Shrouded        |
| 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              | 10           |
| Number of Rows                   | 2            |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 5000 MΩ |
|-----------------------|---------|



Dielectric Withstanding Voltage (Max)750 Vrms

Body Features

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

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| Contact Mating Area Plating Material Thickness          | .762 μm[30 μin]               |
| Mating Square Post Dimension                            | .64 mm[.025 in]               |
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 μm[100 – 200 μin] |
| Contact Shape & Form                                    | Square                        |
| Contact Base Material                                   | Phosphor Bronze               |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Mating Area Plating Material                    | Gold (Au)                     |
| Contact Type                                            | Pin                           |
| Contact Current Rating (Max)                            | 3 A                           |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 3.18 mm[.125 in]      |
| Square Termination Post & Tail Dimension | .64 mm[.025 in]       |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

|                         |               |
|-------------------------|---------------|
| Mating Retention Type   | Detent Window |
| 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) | 2.54 mm[.1 in] |

Dimensions

|                    |                |
|--------------------|----------------|
| Row-to-Row Spacing | 2.54 mm[.1 in] |
|--------------------|----------------|



|                             |                 |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | 1.4 mm[.055 in] |
|-----------------------------|-----------------|

Usage Conditions

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

Operation/Application

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

Industry Standards

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 2240 |
| Packaging Method   | Tray |

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                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.                                                                        |
| Solder Process Capability                     | Wave solder capable to 240°C                                                                                                  |

Product Compliance Disclaimer

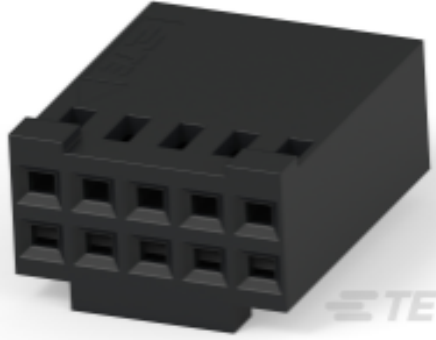
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



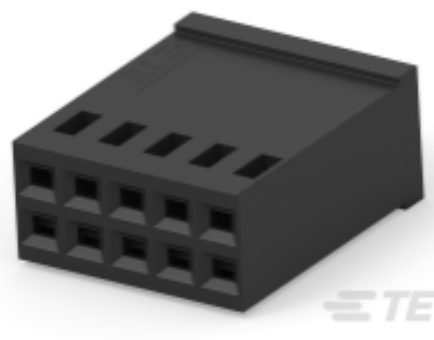


on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

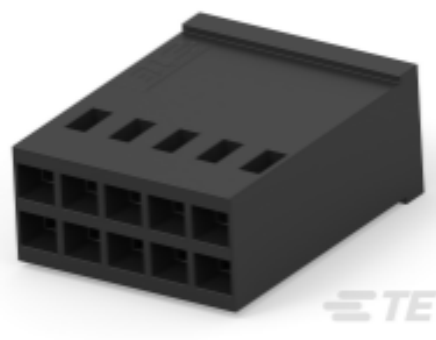
Compatible Parts



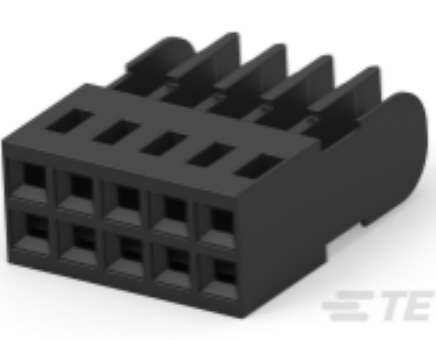
TE Part # 87977-3  
10 MODIV HSG DR MRKD .100 POL



TE Part # 87456-5  
10 MODIV HSG COMP DR .100CL



TE Part # 1-86177-2  
10 MODIV HSG COMP DR .100CL



TE Part # 102394-3  
10 AMP MODU MT HSG DR .100CL

Also in the Series | AMPMODU Headers



Automotive Headers(1)



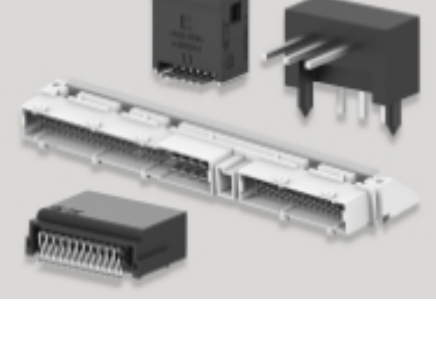
Board-to-Board Headers & Receptacles(1576)



Connector Contacts(47)



Connector Hardware(1)



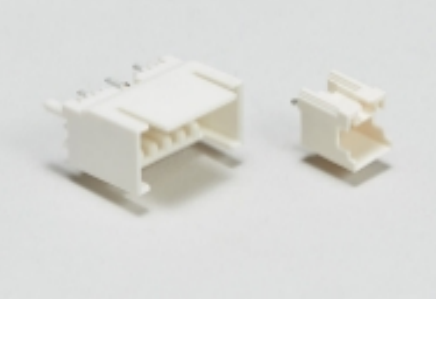
PCB Headers & Receptacles(1621)



Rectangular Power Connectors(43)



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



Wire-to-Board Headers & Receptacles (114)

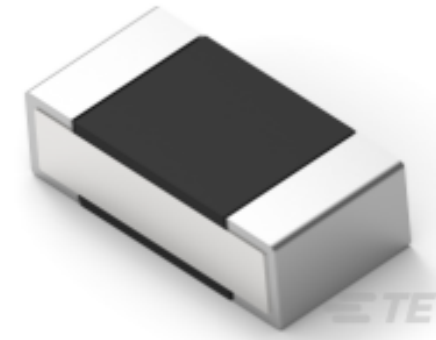
Customers Also Bought



TE Part #1-5645956-1  
SOCKET,MIN-SPR B-N SN-SN SER-2



TE Part #2-1761609-7  
IDC LOW PRO HDR 20P RA SHT LAT BLUE



TE Part #3-2176307-7  
RP 1E 0.1W 29K4 0.1% 25PPM 5K RL



TE Part #643266-1  
HCCC STRAIN RELIEF





TE Part #1676353-3  
RN 0805 49K9 0.1% 10PPM 5KRL



TE Part #1-1422025-0  
V23079A2005B301



TE Part #5-102618-5  
14 MODII HDR DRST SHRD .100CL



TE Part #6-440054-4  
HPI 2.0MM,HDR,4POSVERTICAL,BLK



TE Part #5-102618-1  
06 MODII HDR DRST SHRD .100CL



TE Part #5-103168-4  
12 MODII HDR DRST SHRD .100CL

Documents

Product Drawings

10 MODII HDR DRST SHRD .100CL

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-103168-3\_M.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-103168-3\_M.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-103168-3\_M.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