



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



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

PCB Mount Orientation: **Right Angle**

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                       | Breakaway             |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                                  |               |
|----------------------------------|---------------|
| Number of Rows                   | 1             |
| Connector Contact Load Condition | Fully Loaded  |
| PCB Mount Orientation            | Right Angle   |
| Number of Positions              | 20            |
| Board-to-Board Configuration     | Perpendicular |

Electrical Characteristics

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

Contact Features

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| Mating Square Post Dimension                            | .64 mm[.025 in] |
| PCB Contact Termination Area Plating Material Thickness | 2.5 μm          |
| Contact Shape & Form                                    | Square          |
| Contact Underplating Material                           | Nickel          |



|                                                |                                          |
|------------------------------------------------|------------------------------------------|
| PCB Contact Termination Area Plating Material  | Tin                                      |
| Contact Base Material                          | Brass                                    |
| Contact Mating Area Plating Material           | Gold or Gold Flash over Palladium Nickel |
| Contact Mating Area Plating Material Thickness | .8 µm[31.5 µin]                          |
| Contact Type                                   | Pin                                      |
| Contact Current Rating (Max)                   | 5 A                                      |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Square Termination Post & Tail Dimension    | .64 mm[.025 in]       |
| Termination Post & Tail Length              | 3.2 mm[.126 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                    |                |
|--------------------|----------------|
| Centerline (Pitch) | 2.54 mm[.1 in] |
| Housing Color      | Green          |
| Housing Material   | PBT            |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| 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              |
| Agency/Standard        | CSA, UL               |
| CSA Certified          | Yes                   |
| CSA File Number        | LR7189                |



|                |        |
|----------------|--------|
| UL File Number | E28476 |
|----------------|--------|

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 250 |
| Packaging Method   | Box |

Other

|         |                     |
|---------|---------------------|
| Comment | With strain relief. |
|---------|---------------------|

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                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                |
| Solder Process Capability                     | Wave solder capable to 265°C                                                                                                  |

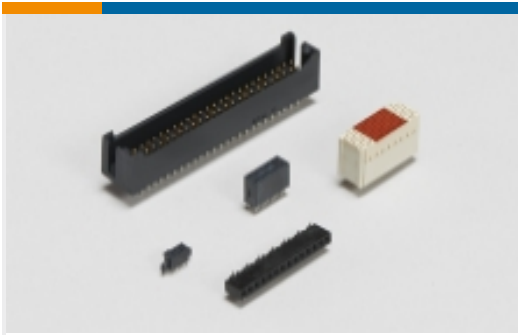
Product Compliance Disclaimer

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>

Also in the Series | AMPMODU Headers



Automotive Headers(10)



Board-to-Board Headers & Receptacles(7077)



PCB Connector Mounting(1)



PCB Connector Shrouds(1)



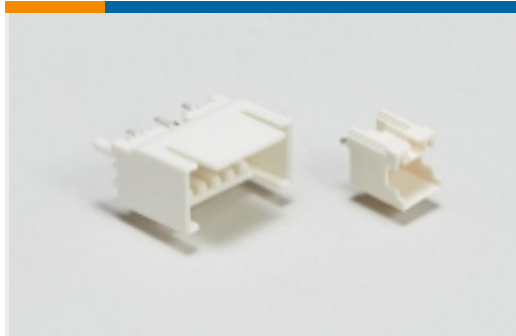
PCB Latches, Locks & Retainers(2)



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



Wire-to-Board Connector Contacts(66)



Wire-to-Board Headers & Receptacles (79)

Customers Also Bought



TE Part #103308-1  
010 LOPRO HDR SP 15DP



TE Part #1676298-2  
RN 0805 301R 0.1% 10PPM 1KRL



TE Part #1-881545-2  
AMP SHUNT ASS'Y



TE Part #1-1879417-4  
CPF 0603 620K 0.1% 25PPM 1K RL



TE Part #1676376-2  
RN 0805 562R 0.1% 10PPM 1KRL



TE Part #1676185-2  
RN 0805 140R 0.1% 10PPM 1KRL



TE Part #1676222-2  
RN 0805 1K13 0.1% 10PPM 1KRL



TE Part #YDTS26W15-05SAC001  
D38999: Straight Plug, 15-05 Insert



TE Part #1676264-2  
RN 0805 249R 0.1% 10PPM 1KRL



TE Part #1393236-7  
V23092-A1012-A301

Documents



Product Drawings

MOD 2 PINHDR 1X20P.

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-825437-0\_V.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-825437-0\_V.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-825437-0\_V.3d\_stp.zip

English

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Agency Approvals

UL Report

English