



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **2**

Number of Rows: **1**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Type                | PCB Mount Header      |
| Connector System                  | Wire-to-Board         |
| Header Type                       | Fully Shrouded        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type            | Connector Assembly    |

Configuration Features

|                       |          |
|-----------------------|----------|
| PCB Mount Orientation | Vertical |
| Number of Positions   | 2        |
| Number of Rows        | 1        |

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 50 VDC |
|-------------------|--------|

Body Features

|                         |   |
|-------------------------|---|
| Connector & Keying Code | A |
|-------------------------|---|



|                       |         |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|

Contact Features

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| Contact Underplating Material                           | Nickel          |
| Contact Underplating Material Thickness                 | 1 µm[39.37 µin] |
| PCB Contact Termination Area Plating Material Finish    | Bright          |
| Contact Mating Area Plating Material Thickness          | 2 µm[78.74 µin] |
| Mating Square Post Dimension                            | .5 mm[.02 in]   |
| Mating Tab Width                                        | .5 mm[.02 in]   |
| PCB Contact Termination Area Plating Material Thickness | 2 µm[78.74 µin] |
| Contact Shape & Form                                    | Square          |
| Contact Layout                                          | Inline          |
| Contact Base Material                                   | Brass           |
| PCB Contact Termination Area Plating Material           | Tin             |
| Contact Mating Area Plating Material Finish             | Bright          |
| Contact Mating Area Plating Material                    | Tin (Sn)        |
| Contact Type                                            | Tab             |
| Contact Current Rating (Max)                            | 2.2 A           |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 2.6 mm[.102 in]       |
| Square Termination Post & Tail Dimension | .5 mm[.02 in]         |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

|                          |                |
|--------------------------|----------------|
| Mating Retention Type    | Latch          |
| Mating Retention         | With           |
| Mating Alignment Type    | Keyed          |
| PCB Mount Alignment Type | Locating Posts |
| PCB Mount Retention      | Without        |
| PCB Mount Alignment      | With           |
| Connector Mounting Type  | Board Mount    |
| Mating Alignment         | With           |

Housing Features

|                  |              |
|------------------|--------------|
| Housing Material | Nylon 6/6 GF |
|------------------|--------------|



|                    |               |
|--------------------|---------------|
| Centerline (Pitch) | 2 mm[.079 in] |
|--------------------|---------------|

Dimensions

|                             |                 |
|-----------------------------|-----------------|
| Connector Width             | 5.6 mm[.22 in]  |
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
| Connector Height            | 6.35 mm[.25 in] |
| Connector Length            | 8 mm[.31 in]    |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

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

Industry Standards

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Compatible With Agency/Standards Products | UL                            |
| Glow Wire Rating                          | Standard Part - Not Glow Wire |
| UL Flammability Rating                    | UL 94V-0                      |

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 400     |
| Packaging Method   | Package |

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                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                |
| Solder Process Capability                     | Wave solder capable to 260°C                                                                                                  |

Product Compliance Disclaimer

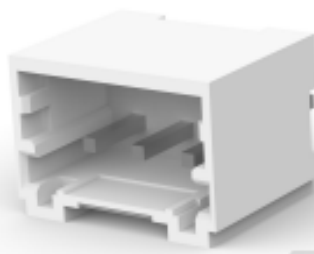
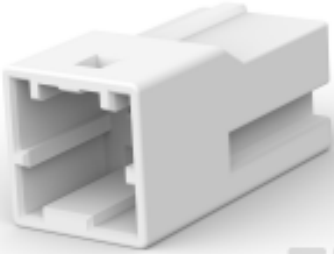
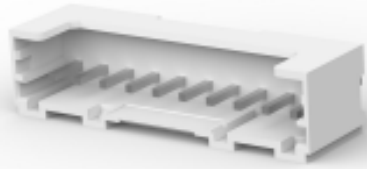
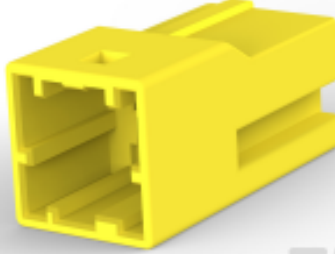
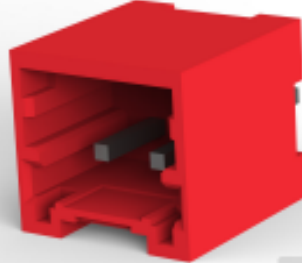
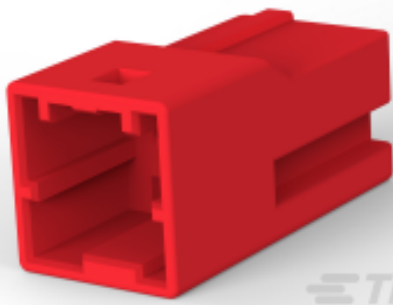
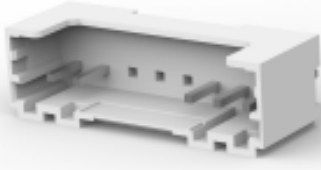
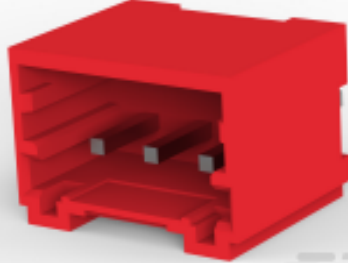
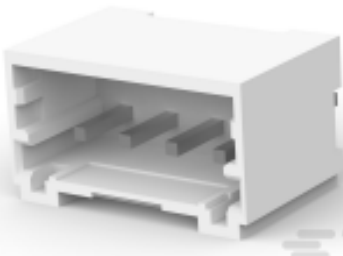
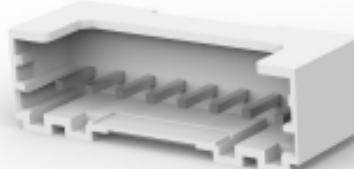
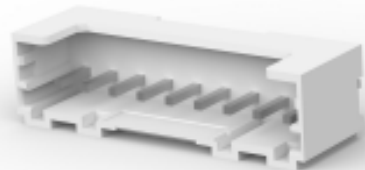
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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





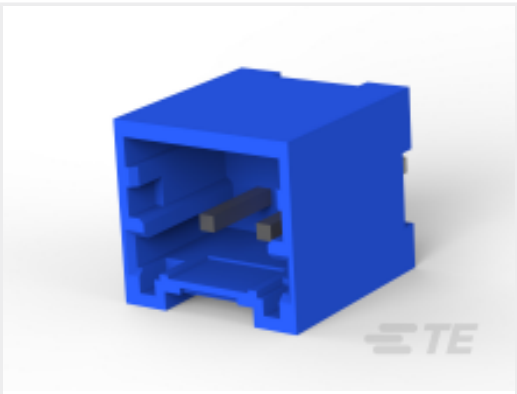
chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may 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

|                                                                                                                                                              |                                                                                                                                                              |                                                                                                                                                                |                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 2-1747070-1<br/>GRACE INERTIA CONN 2.0 HDR ASSY 10P BLUE</p> |  <p>TE Part # 3-1747070-1<br/>GRACE INERTIA CONN 2.0 HDR ASSY 10P YELL</p> |  <p>TE Part # 1-2013924-1<br/>GIC 2.0 HDR ASSY 10POS TIN VERTION (RED)</p> |  <p>TE Part # 1971032-3<br/>3P HEADER ASSEMBLY FOR GIC 2.0 EV</p>      |
|  <p>TE Part # 1903391-1<br/>GIC 2.5 W CAP HSG 2P NATURAL</p>              |  <p>TE Part # 1971032-1<br/>10POS HEADER ASSEMBLY FOR GIC 2.0 EV</p>      |  <p>TE Part # CAT-G7534A-C1701<br/>STD Temp Sig GRACE INERTIA Cap</p>     |  <p>TE Part # 1-1971032-2<br/>2POS HEADER ASSEMBLY FOR GIC 2.0 EV</p> |
|  <p>TE Part # 1-1903391-2<br/>GIC 2.5 W CAP HSG 2P RED</p>                |  <p>TE Part # 3-2013924-1<br/>GIC 2.0 HDR ASSY 10P TIN VERTION YELLOW</p> |  <p>TE Part # 1971200-1<br/>GIC 2.0 EV 5/8P HEADER ASSEMBLY</p>           |  <p>TE Part # 1-1971032-3<br/>3POS HEADER ASSEMBLY FOR GIC 2.0 EV</p> |
|  <p>TE Part # 1971032-4<br/>4POS HEADER ASSEMBLY FOR GIC 2.0 EV</p>       |  <p>TE Part # 2013924-1<br/>GIC 2.0 HDR ASSY 10POS TIN VERTION (NAT)</p>  |  <p>TE Part # 1971032-8<br/>8POS HEADER ASSEMBLY FOR GIC 2.0 EV</p>       |  <p>TE Part # 1971032-9<br/>9POS HEADER ASSEMBLY FOR GIC 2.0 EV</p>   |







TE Part # 2-1971032-2  
2POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part # 1971032-7  
7pos header assembly for gic 2.0 ev

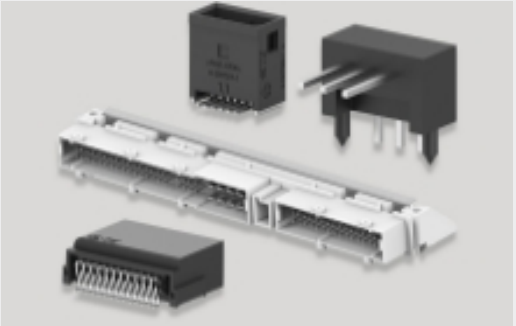


TE Part # 2-2013924-1  
GIC 2.0 HDR ASSY 10P TIN VERTION (BLUE)

Also in the Series | GRACE INERTIA 2.0



Connector Contacts(4)



PCB Headers & Receptacles(70)



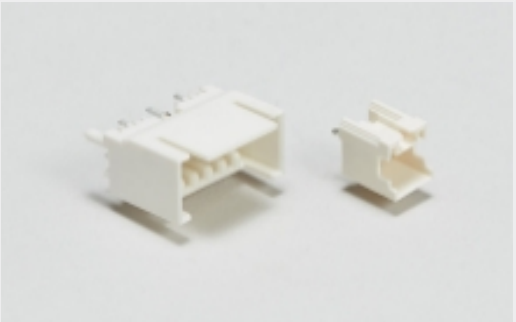
Rectangular Connector Housings(20)



Standard Rectangular Connectors(38)

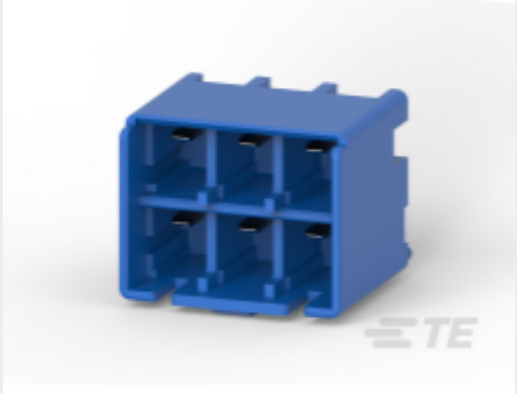


Wire-to-Board Connector Assemblies & Housings(1)

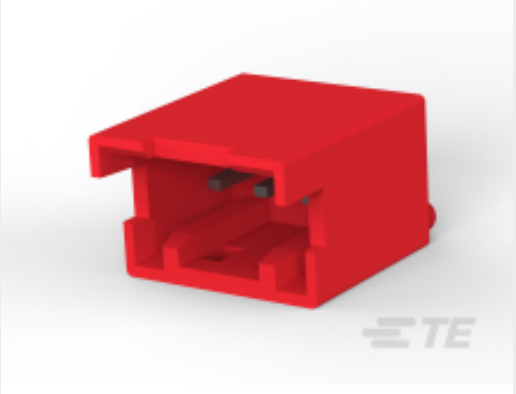


Wire-to-Board Headers & Receptacles (70)

Customers Also Bought



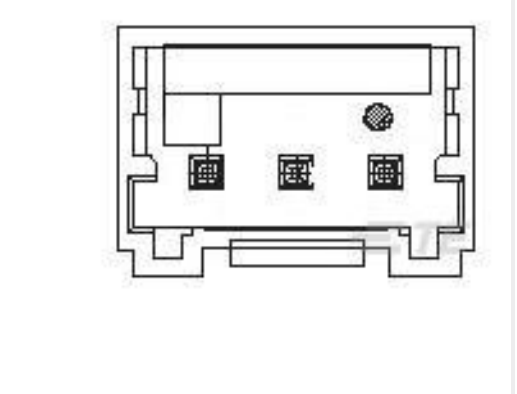
TE Part #2-1376387-4  
5.0 PK CONN. 6P(2ROW) HDR W/O GF - BLUE



TE Part #1-1871843-3  
GIC 2.5 HDR ASSY TIN VERSION 3P RED



TE Part #292206-4  
MINI CT SGL DIP H 4P NAT



TE Part #1-1971032-8  
8POS HEADER ASSEMBLY FOR GIC 2.0 EV



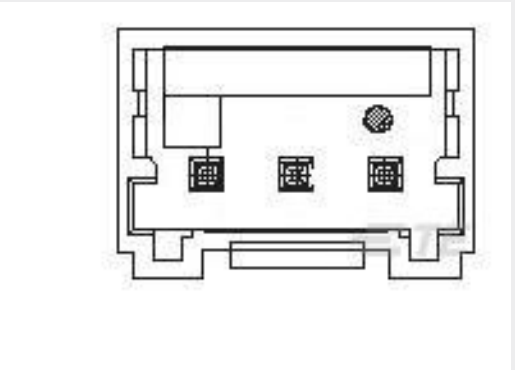
TE Part #1971032-6  
6POS HEADER ASSEMBLY FOR GIC 2.0 EV



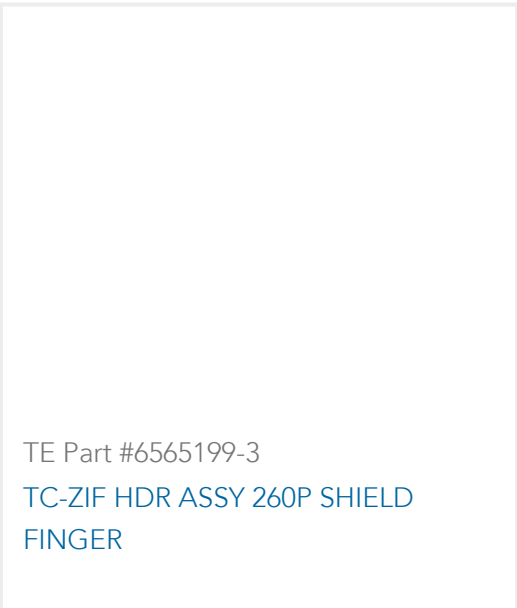
TE Part #4-1879022-1  
SMF3 15K 5%



TE Part #1871843-3  
GIC 2.5 HDR ASSY TIN VERSION 3P



TE Part #1971032-8  
8POS HEADER ASSEMBLY FOR GIC 2.0 EV



Documents

Product Drawings

2POS HEADER ASSEMBLY FOR GIC 2.0 EV

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1971032-2\_D.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1971032-2\_D.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1971032-2\_D.3d\_stp.zip

English

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

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English