



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**

Centerline (Pitch): **2.5 mm [.098 in]**

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

|                       |     |
|-----------------------|-----|
| Primary Product Color | Red |
|-----------------------|-----|



Contact Features

|                                                         |                  |
|---------------------------------------------------------|------------------|
| Contact Underplating Material                           | Nickel           |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin]  |
| PCB Contact Termination Area Plating Material Finish    | Matte            |
| Mating Tab Width                                        | .7 mm[.028 in]   |
| PCB Contact Termination Area Plating Material Thickness | 2 µm[78.74 µin]  |
| Contact Layout                                          | Inline           |
| Contact Base Material                                   | Brass            |
| Mating Tab Thickness                                    | .5 mm[.02 in]    |
| PCB Contact Termination Area Plating Material           | Tin              |
| Contact Mating Area Plating Material                    | Gold (Au)        |
| Contact Mating Area Plating Material Thickness          | .3 µm[11.81 µin] |
| Contact Type                                            | Tab              |
| Contact Current Rating (Max)                            | 3 A              |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 3 mm[.118 in]         |
| Square Termination Post & Tail Dimension | .5 mm[.02 in]         |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

|                          |              |
|--------------------------|--------------|
| Panel Mount Feature      | Without      |
| Mating Retention Type    | Latch        |
| Mating Alignment Type    | Polarization |
| PCB Mount Retention Type | Kinked Legs  |
| PCB Mount Alignment Type | Boss         |
| PCB Mount Alignment      | With         |
| Mating Retention         | With         |
| PCB Mount Retention      | With         |
| Connector Mounting Type  | Board Mount  |
| Mating Alignment         | With         |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 2.5 mm[.098 in] |
| Housing Material   | 6/6 Nylon GF    |

Dimensions



|                             |                  |
|-----------------------------|------------------|
| Connector Width             | 6.8 mm[.26 in]   |
| PCB Thickness (Recommended) | 1.6 mm[.063 in]  |
| Connector Height            | 11.3 mm[.444 in] |
| Connector Length            | 7.5 mm[.295 in]  |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -30 – 105 °C[-22 – 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   | Bag |

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<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>

Compatible Parts

|                                                                              |                                                                             |                                                                             |                                                                             |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                                              |                                                                             |                                                                             |                                                                             |
| <p>TE Part # 2-1747067-6<br/>GRACE INERTIA CONN 2.5 HDR ASSY<br/>6P BLUE</p> | <p>TE Part # 1-1747066-2<br/>GRACE INERTIA CONN 2.5 PLUG<br/>HSG 2P RED</p> | <p>TE Part # 1747508-1<br/>GRACE INERTIA CONN 2.5 HDR ASSY<br/>2/3P NAT</p> | <p>TE Part # 1747066-2<br/>GRACE INERTIA CONN 2.5 PLUG<br/>HSG 2P NATUR</p> |
|                                                                              |                                                                             |                                                                             |                                                                             |
| <p>TE Part # 1903391-1<br/>GIC 2.5 W CAP HSG 2P NATURAL</p>                  | <p>TE Part # 1747509-1<br/>GRACE INERTIA CONN 2.5 HDR ASSY<br/>5/7P NAT</p> | <p>TE Part # 1747067-5<br/>GRACE INERTIA CONN 2.5 HDR ASSY<br/>5P NATUR</p> | <p>TE Part # CAT-G7534A-C1701<br/>STD Temp Sig GRACE INERTIA Cap</p>        |
|                                                                              |                                                                             |                                                                             |                                                                             |
| <p>TE Part # 1827738-1<br/>GIC 2.5 HDR ASSY SPECIAL 3/5P</p>                 | <p>TE Part # 1-1903391-2<br/>GIC 2.5 W CAP HSG 2P RED</p>                   | <p>TE Part # 1747067-2<br/>GRACE INERTIA CONN 2.5 HDR ASSY<br/>2P NATUR</p> |                                                                             |

Also in the Series | GRACE INERTIA 2.5

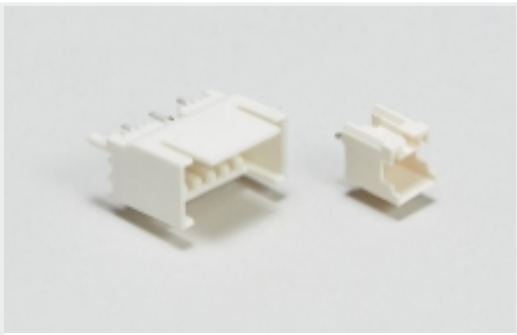
|                              |                              |                                           |                          |
|------------------------------|------------------------------|-------------------------------------------|--------------------------|
|                              |                              |                                           |                          |
| <p>Connector Contacts(6)</p> | <p>Connector Hardware(7)</p> | <p>PCB Headers &amp; Receptacles(173)</p> | <p>Power Contacts(2)</p> |



Rectangular Power Connectors(44)



Wire-to-Board Connector Assemblies & Housings(36)



Wire-to-Board Headers & Receptacles (173)

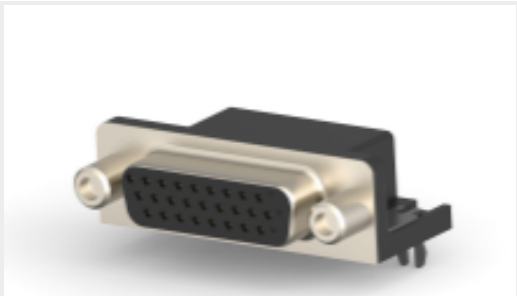
Customers Also Bought



TE Part #292303-1  
Std USB Type A, R/A, T/H



TE Part #1551574-5  
Shield Finger, Loose Piece



TE Part #2311768-1  
AMPL REC, HD22, R/A, 26P, THREADED



TE Part #5520426-4  
MJ,R/A,8P

Documents

Product Drawings

GRACE INERTIA CONN 2.5 HDR ASSY 2P RED

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-1747067-2\_C.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1747067-2\_C.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1747067-2\_C.3d\_stp.zip

English

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

Datasheets & Catalog Pages

1-1773883-5 GRACE INERTIA connector quick reference guide

English

Product Specifications

Application Specification

English

1-1747067-2

PCB Mount Header, Vertical, Wire-to-Board, 2 Position, 2.5 mm [.098 in] Centerline,  
Fully Shrouded, Gold (Au), GRACE INERTIA 2.5

