



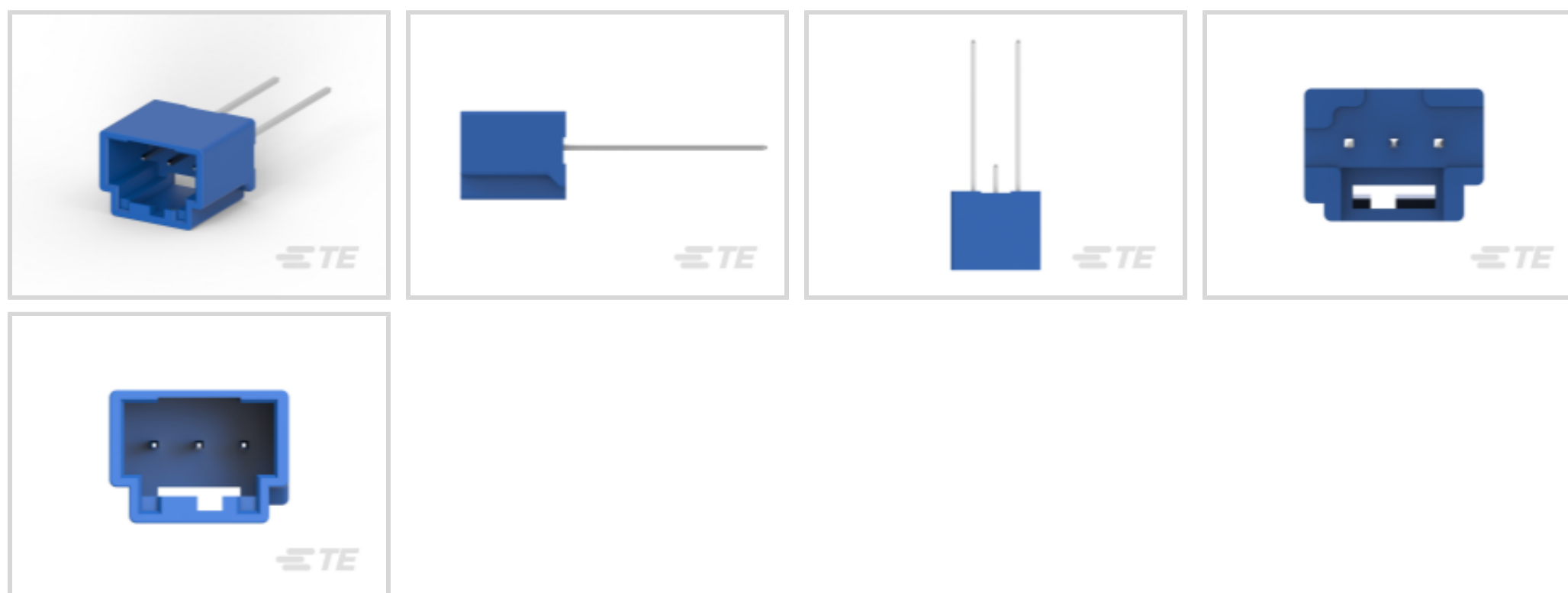
GRACE INERTIA 2.5

TE Internal #: 3-2232546-2

PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 2.5

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **3**

Number of Rows: **1**

Features

Electrical Characteristics

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

Dimensions

| | |
|-----------------------------|---------------------------------|
| PCB Thickness (Recommended) | 1.6 mm, 2 mm [.062 in][.078 in] |
| Connector Length | 10 mm [.393 in] |

Packaging Features

| | |
|--------------------|------|
| Packaging Quantity | 900 |
| Packaging Method | Reel |

Industry Standards

| | |
|------------------------|-------------------------------|
| Glow Wire Rating | Standard Part - Not Glow Wire |
| UL Flammability Rating | UL 94V-0 |

Usage Conditions

| | |
|-----------------------------|-----------------------------|
| Operating Temperature (Max) | 105 °C [221 °F] |
| Operating Temperature Range | -30 – 105 °C [-22 – 221 °F] |



Body Features

| | |
|-------------------------|------|
| Connector & Keying Code | B |
| Primary Product Color | Blue |

Mechanical Attachment

| | |
|-------------------------|-------------|
| Panel Mount Feature | Without |
| Mating Retention | Without |
| Mating Alignment Type | Keyed |
| PCB Mount Retention | Without |
| PCB Mount Alignment | Without |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

Termination Features

| | |
|--|----------------------------------|
| Termination Post & Tail Length | 16.85 mm, 3 mm[.663 in][.118 in] |
| Square Termination Post & Tail Dimension | .5 mm[.02 in] |
| Termination Method to PCB | Through Hole - Solder |

Contact Features

| | |
|---|---------------------------|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | 1.27 μ m[50 μ in] |
| Contact Size | .5mm |
| Contact Mating Area Plating Material Thickness | 1 μ m[39.37 μ in] |
| Mating Square Post Dimension | .5 mm[.02 in] |
| PCB Contact Termination Area Plating Material Thickness | 1 μ m[39.37 μ in] |
| Contact Shape & Form | Square |
| Contact Layout | Inline |
| Contact Mating Area Length | 3.8 mm[.149 in] |
| Contact Base Material | Brass |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material | Tin |
| Contact Type | Tab |
| Contact Current Rating (Max) | 3 A |

Housing Features

| | |
|-----------------------|-----|
| Mating Entry Location | Top |
|-----------------------|-----|



| | |
|------------------|---------------|
| Housing Material | 66 Nylon (GF) |
|------------------|---------------|

| | |
|--------------------|------------------|
| Centerline (Pitch) | 2.5 mm [.098 in] |
|--------------------|------------------|

Configuration Features

| | |
|-------------------|---|
| Number of Columns | 3 |
|-------------------|---|

| | |
|----------------------------|---|
| Number of Loaded Positions | 3 |
|----------------------------|---|

| | |
|----------------------------|---|
| Number of Signal Positions | 3 |
|----------------------------|---|

| | |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
|----------------------------------|--------------|

| | |
|-----------------------|----------|
| PCB Mount Orientation | Vertical |
|-----------------------|----------|

| | |
|---------------------|---|
| Number of Positions | 3 |
|---------------------|---|

| | |
|----------------|---|
| Number of Rows | 1 |
|----------------|---|

Product Type Features

| | |
|-----------------------|----|
| Mixed & Hybrid Header | No |
|-----------------------|----|

| | |
|-----------------|-------------|
| Connector Shape | Rectangular |
|-----------------|-------------|

| | |
|-----------------------------|------------------|
| PCB Connector Assembly Type | PCB Mount Header |
|-----------------------------|------------------|

| | |
|------------------|---------------|
| Connector System | Wire-to-Board |
|------------------|---------------|

| | |
|-------------|----------------|
| Header Type | Fully Shrouded |
|-------------|----------------|

| | |
|----------|----|
| Sealable | No |
|----------|----|

| | |
|-----------------------------------|-----------------------|
| Connector & Contact Terminates To | Printed Circuit Board |
|-----------------------------------|-----------------------|

Operation/Application

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

Other

| | |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
|--------------------|-----------|

| | |
|-------------------|-----------|
| EU ELV Compliance | Compliant |
|-------------------|-----------|

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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC |
|--|---|



Halogen Content Not Low Halogen - contains Br or Cl > 900 ppm.

Solder Process Capability Not reviewed for solder process capability

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 # 2232983-1
EP 2.5 LIF RCPT CONTACT, 24-20 AWG



TE Part # 1744423-1
EP 2.5 RCPT CONTACT, 24-20 AWG



TE Part # 3-1971793-5
NEW GI CONN2.5 PLUG HSG 3P BLK



TE Part # 2232905-1
EP 2.5 LIF RCPT CONTACT, 26-22 AWG




TE Part # CAT-G7534A-P729A
Glow Wire Sig GRACE INERTIA Plug



TE Part # 3-1971794-1
NEW GI CONN2.5 TPA 3P BLACK

Also in the Series | GRACE INERTIA 2.5




Connector Contacts(6)



Connector Hardware(7)



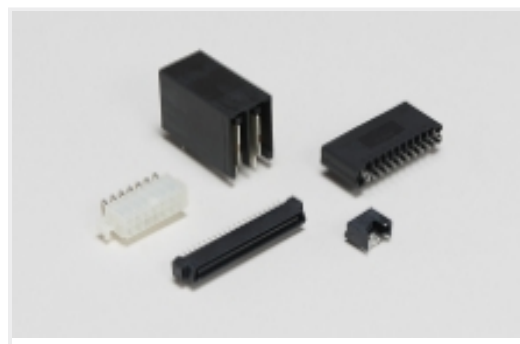
PCB Headers & Receptacles(173)



Power Contacts(2)



Rectangular Connector Housings(49)



Standard Rectangular Connectors(49)



Wire-to-Board Connector Assemblies & Housings(47)

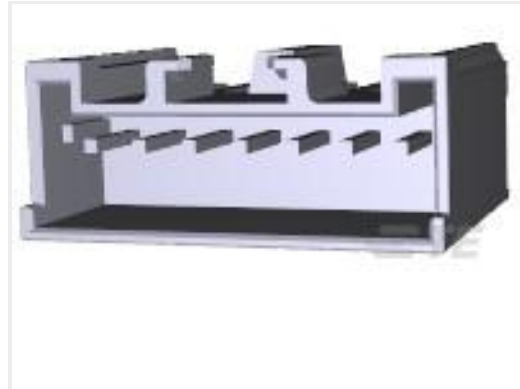


Wire-to-Board Headers & Receptacles (173)

Customers Also Bought



TE Part #2368182-3
RA SMC2.5 Potting header 2.5_3P



TE Part #917727-1
2.5 S.D.L. P/HDR ASY 7P H/PRO.



TE Part #2368182-7
RA SMC2.5 Potting header_7P



TE Part #3-1376382-4
5mm B-T-W Conn. 2P HDR ASSEMBL



TE Part #1-2232960-7
7P POTTED RAST 2.5 HEADER



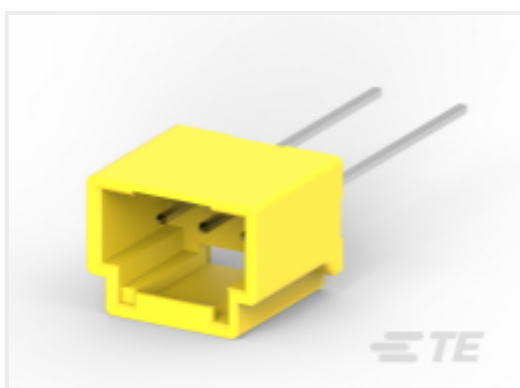
TE Part #2299683-5
EP2.5 HDR 5P VERT W/O BOSS, TAPING



TE Part #2358709-1
250 FASTON, TAB, TAPING AND REEL ASSY



TE Part #917733-1
2.5 S.D.L P/HDR ASY 13P H/PRO.



TE Part #3-2232546-4
GI2.5 HDR ASS 3P YEL NO BOSS TAPE



TE Part #3-1971798-4
NEW GI CONN2.5 HDR ASMBLY 3P YLW D1.0

Documents

Product Drawings

[GI2.5 HDR ASS 3P BL NO BOSS TAPE](#)

English

CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG_CVM_CVM_3-2232546-2_A.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_3-2232546-2_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-2232546-2_A.3d_stp.zip](#)

English

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

Product Specifications

[Product Specification](#)

English

Agency Approvals

[UL Report](#)

English