

1971032-9 ✓ ACTIVE

Grace Inertia | GRACE INERTIA 2.0

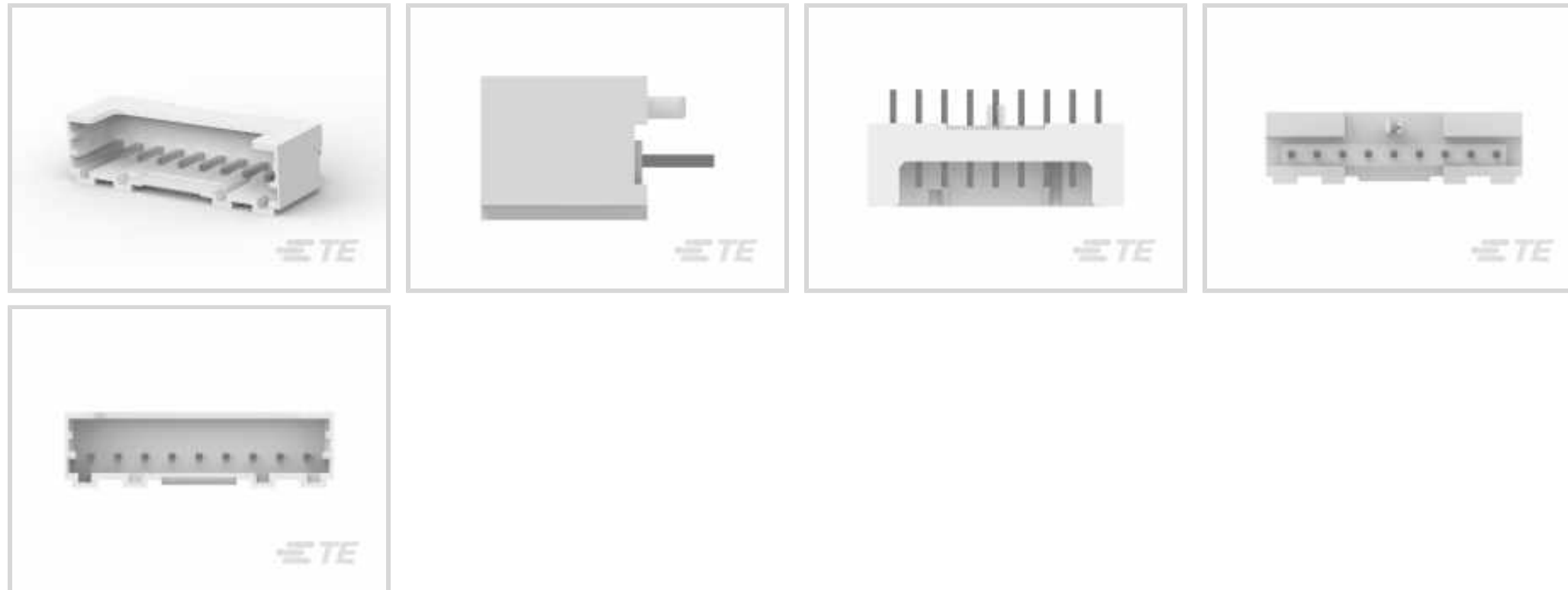
TE Internal #: 1971032-9

GRACE INERTIA 2.0, PCB Mount Header, Vertical, Wire-to-Board, 9
Position, 2mm [.0787in] Centerline, 1 Row, Pre-Tin, Natural,
Shrouded

[View on TE.com >](#)



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



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **9**

Centerline (Pitch): **2 mm [.0787 in]**

Features

Product Type Features

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

Configuration Features

| | |
|-----------------------|----------|
| Keying Code | A |
| PCB Mount Orientation | Vertical |
| Number of Positions | 9 |
| Number of Rows | 1 |

Electrical Characteristics

| | |
|-------------------|--------|
| Operating Voltage | 50 VAC |
|-------------------|--------|

Contact Features

| | |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|



| | |
|---|-----------------|
| Mating Square Post Dimension | .5 mm[.02 in] |
| Contact Retention Within Housing | Without |
| PCB Contact Termination Area Plating Material Thickness | 2 µm[78.74 µin] |
| Mating Tab Width | .5 mm[.02 in] |
| Contact Underplating Material Thickness | 1 µm[39.37 µin] |
| Contact Shape & Form | Square |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Brass |
| Contact Mating Area Plating Material | Pre-Tin |
| Contact Mating Area Plating Material Thickness | 2 µm[78.74 µin] |
| Contact Type | Tab |
| Contact Current Rating (Max) | 2.2 A |

Termination Features

| | |
|---|-----------------------|
| Square Termination Post & Tail Dimension | .5 mm[.02 in] |
| Termination Post & Tail Length | 2.6 mm[.102 in] |
| Termination Method to Wire & Cable | Solder |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

| | |
|--------------------|----------------|
| Centerline (Pitch) | 2 mm[.0787 in] |
| Housing Color | Natural |
| Housing Material | Nylon 6/6 GF |

Dimensions

| | |
|-----------------------------|-----------------|
| Connector Length | 20 mm[.78 in] |
| Connector Height | 6.5 mm[.25 in] |
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |



Usage Conditions

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

Operation/Application

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

Industry Standards

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

Packaging Features

| | |
|--------------------|---------|
| Packaging Quantity | 200 |
| Packaging Method | Package |

Other

| | |
|---------|-------------------------------|
| Comment | Mating with part no 1971030-9 |
|---------|-------------------------------|

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 2020 (205) Candidate List Declared Against: JAN 2020 (205) Does not contain REACH SVHC |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JAN 2020 (205) |
| 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Also in the Series | GRACE INERTIA 2.0



Rectangular Connector Housings(20)



Standard Rectangular Connectors(18)



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



Wire-to-Board Connector Contacts(3)

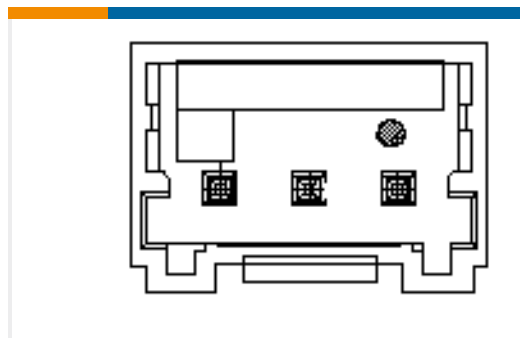


Wire-to-Board Headers & Receptacles (70)

Customers Also Bought



TE Model / Part #1601075-1
WIRE2BLADE,STD, SMZ



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



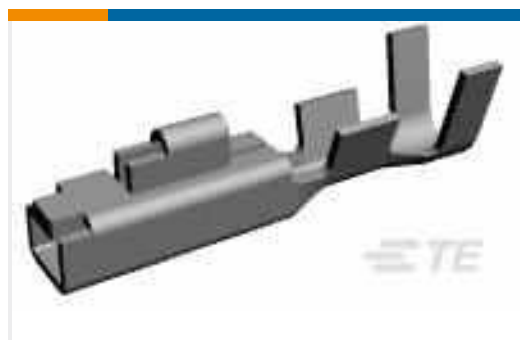
TE Model / Part #2-1971032-3
3POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Model / Part #5-1123824-1
EP CONN HDR ASSY 1P BLACK



TE Model / Part #1217214-1
TAB, POKE-IN, MAG-MATE



TE Model / Part #175151-5
AMP UNIVERSAL POWER CONN.REC C



TE Model / Part #1971200-1
GIC 2.0 EV 5/8P HEADER ASSEMBLY



Documents

Product Drawings

[9POS HEADER ASSEMBLY FOR GIC 2.0 EV](#)

English

[9POS HEADER ASSEMBLY FOR GIC 2.0 EV](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1971032-9_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1971032-9_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1971032-9_D.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

Product Environmental Compliance

[MD_1971032-9_0320201975_dmtec](#)

English

[MD_1971032-9_0320201975_dmtec](#)

English