# 1971032-9 ✔ ACTIVE

GRACE INERTIA | GRACE INERTIA 2.0

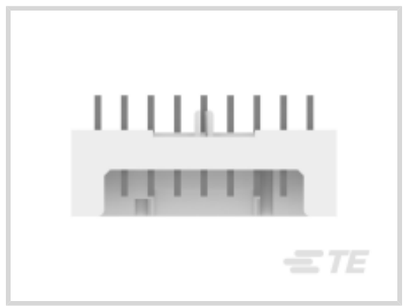
TE Internal #: 1971032-9

PCB Mount Header, Vertical, Wire-to-Board, 9 Position, 2 mm [.079 in] Centerline, Fully Shrouded, Tin (Sn), Through Hole - Solder, GRACE INERTIA 2.0

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **9**

Centerline (Pitch): **2 mm [ .079 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 | 9 |
| 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 |
| 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 | Tin (Sn) |
| Contact Mating Area Plating Material Finish | Bright |
| Contact Mating Area Plating Material Thickness | 2 µm[78.74 µin] |
| 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 Alignment Type | Keyed |
| PCB Mount Alignment Type | Locating Posts |
| PCB Mount Alignment | With |
| Mating Retention | With |
| PCB Mount Retention | Without |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

## Housing Features

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

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

## 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 | 20 mm[.78 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 | 200 |
| 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: 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 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



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



TE Part # 1971032-3
3P HEADER ASSEMBLY FOR GIC 2.0 EV



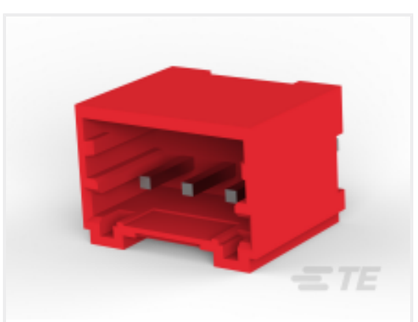
TE Part # 1971032-2
2POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part # 3-1971032-8
8POS HEADER ASSEMBLY FOR GIC 2.0 EV



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



TE Part # 1-1971032-3
3POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part # 1971032-4
4POS HEADER ASSEMBLY FOR GIC 2.0 EV



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



TE Part # 1971032-1
10POS HEADER ASSEMBLY FOR GIC 2.0 EV



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

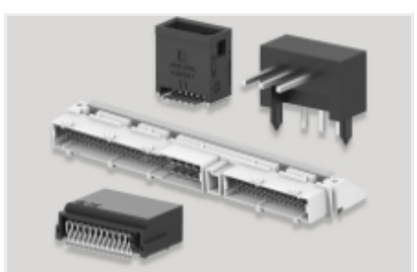
## Also in the Series | GRACE INERTIA 2.0



Connector Contacts(6)



Connector Hardware(9)



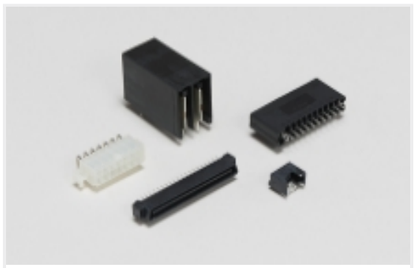
PCB Headers & Receptacles(70)



Rectangular Connector Housings(22)



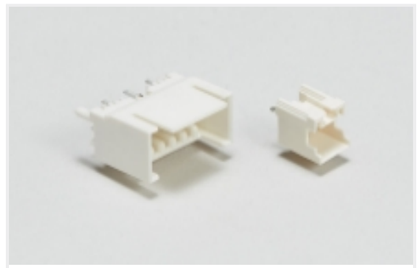
Rectangular Power Connectors(1)



Standard Rectangular Connectors(40)



Wire-to-Board Connector Assemblies & Housings(40)



Wire-to-Board Headers & Receptacles (70)

## Customers Also Bought



TE Part #1747052-1

GRACE INERTIA CONNECTOR 7.92 2POS_HEADER



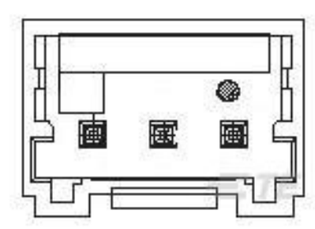
TE Part #3-1747052-4

GIC 7.92MM CONN HDR ASS'Y 2POS YELLOW



TE Part #1871843-3

GIC 2.5 HDR ASSY TIN VERSION 3P



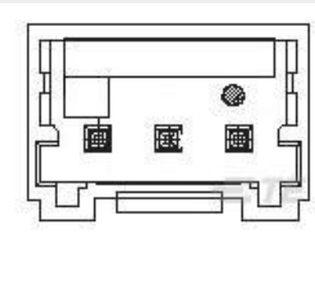
TE Part #1971032-3

3P HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part #1971032-5

5P HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part #1971032-8

8POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part #3-1971032-2

2POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part #3-1971032-3

3POS HEADER ASSEMBLY FOR GIC 2.0 EV

## Documents

### Product Drawings

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

### Application Specification

English

## Agency Approvals

### UL Report

English