

1971032-7 ✓ ACTIVE

GRACE INERTIA 2.0

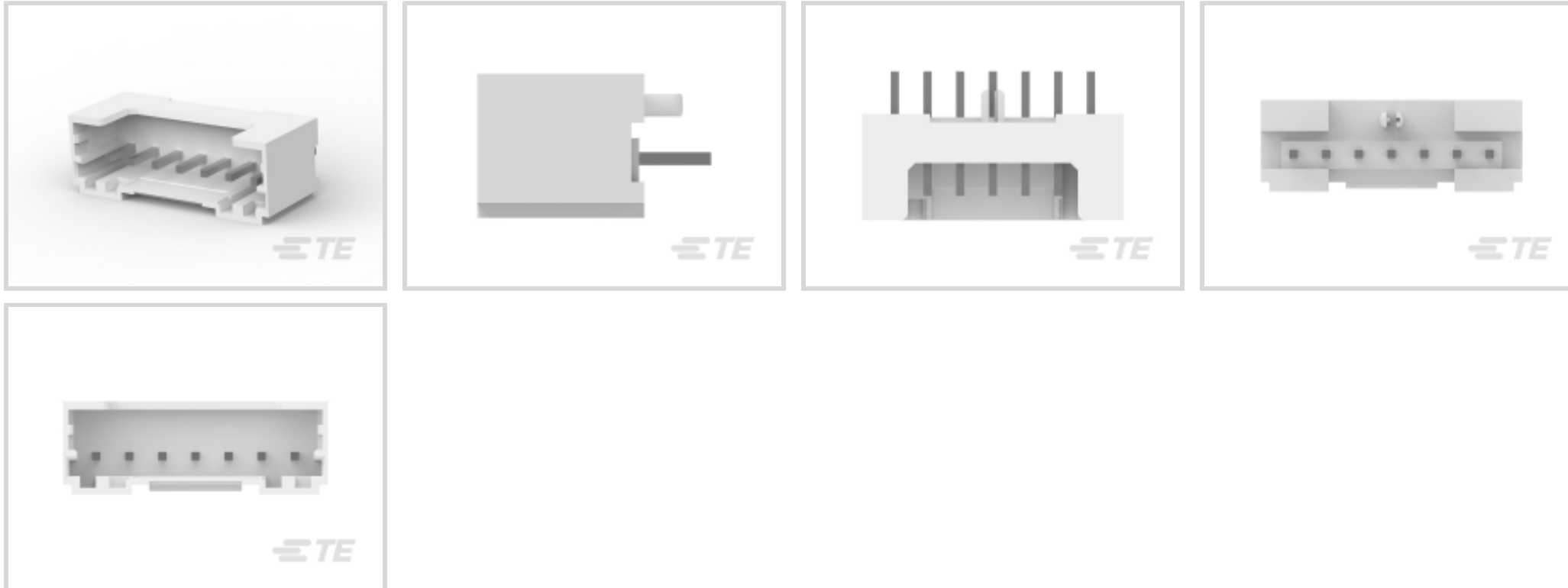
TE Internal #: 1971032-7

PCB Mount Header, Vertical, Wire-to-Board, 7 Position, 2 mm [.079 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 2.0

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Connectors > PCB Connectors > PCB Headers & Receptacles



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

Number of Positions: **7**

Number of Rows: **1**

Centerline (Pitch): **2 mm [.079 in]**

PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

| | |
|-----------------------|----------|
| Number of Positions | 7 |
| Number of Rows | 1 |
| PCB Mount Orientation | Vertical |

Electrical Characteristics

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

Body Features

| | |
|-----------------------|---------|
| Connector Code | A |
| Primary Product Color | Natural |



Contact Features

| | |
|---|-----------------|
| Contact Layout | Inline |
| Mating Square Post Dimension | .5 mm[.02 in] |
| 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 Mating Area Plating Material Thickness | 2 µm[78.74 µin] |
| PCB Contact Termination Area Plating Material Finish | Bright |
| Contact Shape & Form | Square |
| Contact Mating Area Plating Material Finish | Bright |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Brass |
| Contact Mating Area Plating Material | Tin |
| 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 Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

| | |
|--------------------|---------------|
| Housing Material | Nylon 6/6 GF |
| Centerline (Pitch) | 2 mm[.079 in] |



Dimensions

| | |
|-----------------------------|-----------------|
| Connector Length | 22 mm[.866 in] |
| Connector Height | 6.35 mm[.25 in] |
| Connector Width | 5.6 mm[.22 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 |
| Agency/Standard | UL |
| UL Flammability Rating | UL 94V-0 |

Packaging Features

| | |
|--------------------|---------|
| Packaging Quantity | 200 |
| Packaging Type | 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 2022 (224) Candidate List Declared Against: JAN 2021 (211) 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 # 1971032-4
4POS 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 # 1971032-8
8POS HEADER ASSEMBLY FOR GIC 2.0 EV



TE Part # 1971032-9
9POS HEADER ASSEMBLY FOR GIC 2.0 EV



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



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



TE Part # 1827229-6
GIC 2.0 HDR ASSY 20P



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



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




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


Also in the Series | GRACE INERTIA 2.0




PCB Headers & Receptacles(70)



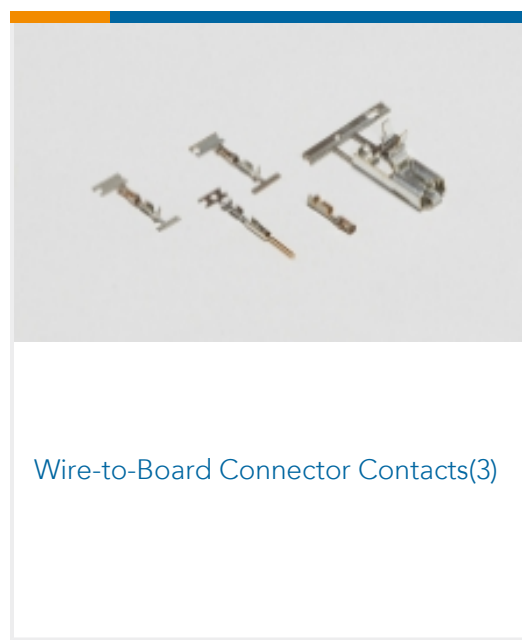
Rectangular Connector Housings(20)



Standard Rectangular Connectors(18)



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



Documents

Product Drawings

[7pos header assembly for gic 2.0 ev](#)

English

[7pos header assembly for gic 2.0 ev](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1971032-7_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1971032-7_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1971032-7_D.3d_stp.zip](#)

English

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Product Specifications

[Product Specification](#)

English

Product Environmental Compliance

[MD_1971032-7_03202019639_dmtec](#)

English

[MD_1971032-7_03202019639_dmtec](#)

English