



GRACE INERTIA 2.0

TE Internal #: 4-2232829-7  
PCB Mount Header, Vertical, Wire-to-Board, 7 Position, 2 mm [.079 in] Centerline, Fully Shrouded, Tin, Surface Mount, Signal, Black, 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 Profile       | Standard |
| Connector & Keying Code | B        |



|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

|                                                |               |
|------------------------------------------------|---------------|
| Mating Square Post Dimension                   | .5 mm[.02 in] |
| Contact Mating Area Plating Material Thickness | 2 µm[80 µin]  |
| Contact Mating Area Plating Material Finish    | Bright        |
| PCB Contact Termination Area Plating Material  | Tin           |
| Contact Mating Area Plating Material           | Tin           |
| Contact Type                                   | Pin           |
| Contact Current Rating (Max)                   | 2 A           |

Termination Features

|                                          |               |
|------------------------------------------|---------------|
| Square Termination Post & Tail Dimension | .5 mm[.02 in] |
| Termination Method to PCB                | Surface Mount |

Mechanical Attachment

|                          |             |
|--------------------------|-------------|
| Mating Alignment Type    | Keyed       |
| Mating Retention         | With        |
| PCB Mount Retention Type | Kinked Legs |
| Connector Mounting Type  | Board Mount |
| Mating Alignment         | With        |
| PCB Mount Retention      | With        |

Housing Features

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

Dimensions

|                             |                 |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
|-----------------------------|-----------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                     |        |
|---------------------|--------|
| Shielded            | No     |
| Circuit Application | Signal |

Industry Standards

|                  |           |
|------------------|-----------|
| Glow Wire Rating | Glow Wire |
|------------------|-----------|



|                                             |           |
|---------------------------------------------|-----------|
| Compatible With Agency/Standards Products   | VDE       |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating                      | UL 94V-0  |

Packaging Features

|                  |             |
|------------------|-------------|
| Packaging Method | Tape & Reel |
|------------------|-------------|

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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                             |
| 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 # 1-2232829-2  
SGI2.0 HEADER ASSEMBLY SMT 2P,  
KEY A,NTL

TE Part # 1-2232829-7  
SGI2.0 HEADER ASSEMBLY SMT 7P,  
KEY A,NTL

TE Part # 4-2232829-2  
SGI2.0 HEADER ASSEMBLY SMT 2P,  
KEY B,BLK

TE Part # 4-2232829-3  
SGI2.0 HEADER ASSEMBLY SMT 3P,  
KEY B,BLK

TE Part # 4-2232829-4  
SGI2.0 HEADER ASSEMBLY SMT 4P,  
KEY B,BLK

TE Part # 4-2232829-5  
SGI2.0 HEADER ASSEMBLY SMT 5P,  
KEY B,BLK

TE Part # 4-2232829-6  
SGI2.0 HEADER ASSEMBLY SMT 6P,  
KEY B,BLK

TE Part # 4-2232829-8  
SGI2.0 HEADER ASSEMBLY SMT 8P,  
KEY B,BLK

TE Part # 4-2232829-9  
SGI2.0 HEADER ASSEMBLY SMT 9P,  
KEY B,BLK

TE Part # 5-2232829-0  
SGI2.0 HEADER ASSEMBLY SMT 10P,  
KEY B,BLK

Also in the Series | GRACE INERTIA 2.0

Connector Contacts(3)

PCB Headers & Receptacles(70)

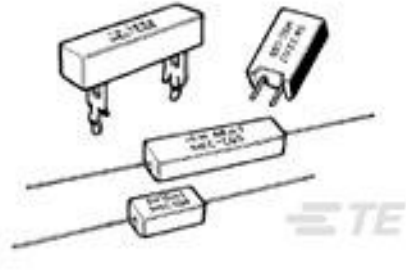
Rectangular Connector Housings(20)

Standard Rectangular Connectors(18)

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

Customers Also Bought

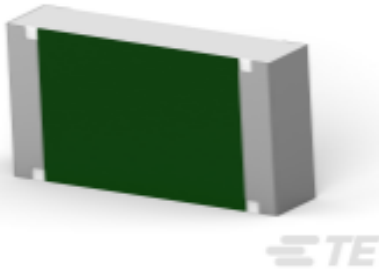




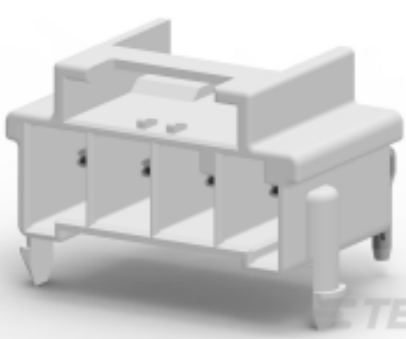
TE Part #2-1623795-3  
SQP2 R047 5% WIRE



TE Part #1-1630019-4  
HSC200 2K4 5%



TE Part #9-2176397-4  
3502 7K5 1%



TE Part #1-1969694-4  
PTL 1X4 PCB HEADER R/A HITEMP  
KEY A LGR



TE Part #YD369-B99-AP400000  
Rectangular Connectors: 9-Way Panel  
Mount, 90PCB



TE Part #YDTS24T15-18PNV001  
RECP ASSY



TE Part #YDTS24T21-35SNV001  
RECP ASSY

Documents

Product Drawings

SGI2.0 HEADER ASSEMBLY SMT 7P,KEY B,BLK

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_4-2232829-7\_A1.3d\_stp.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_4-2232829-7\_A1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-2232829-7\_A1.3d\_igs.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

VDE Certificate

English

VDE Certificate

English

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