



GRACE INERTIA 2.0

TE Internal #: 1971032-3
PCB Mount Header, Vertical, Wire-to-Board, 3 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: **3**
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	3
Number of Rows	1
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	50 VAC
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Body Features

Connector & Keying Code	A
Primary Product Color	Natural



Contact Features

Mating Square Post Dimension	.5 mm[.02 in]
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Contact Layout	Inline
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 PCB	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	10 mm[.39 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]
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Operation/Application

Circuit Application	Signal
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Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
Compatible With Agency/Standards Products	UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	400
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 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	Wave solder capable to 260°C

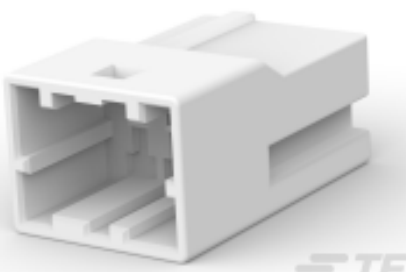
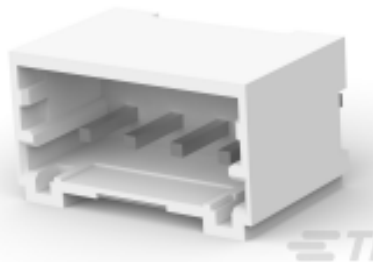
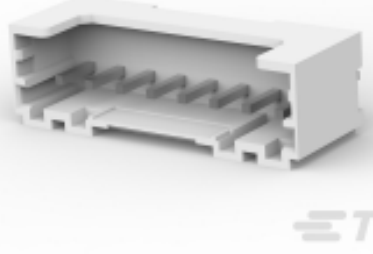
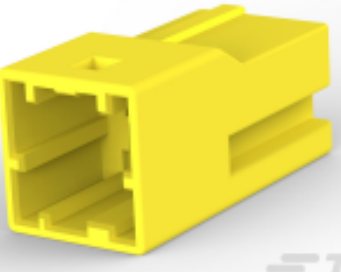
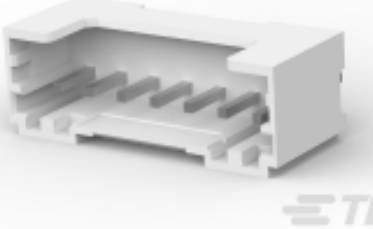
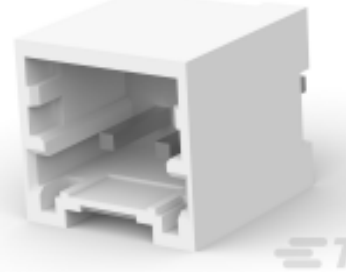
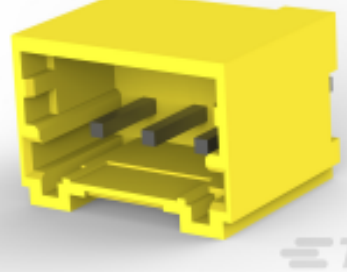
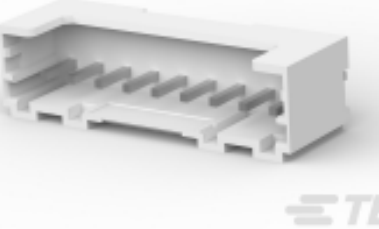
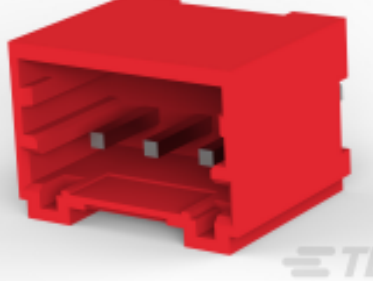
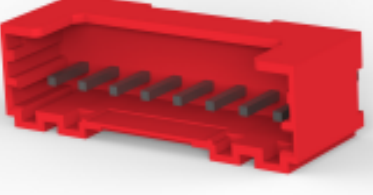
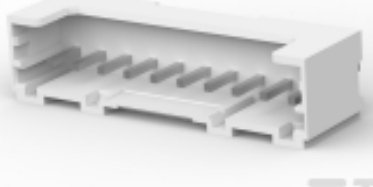
Product Compliance Disclaimer

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

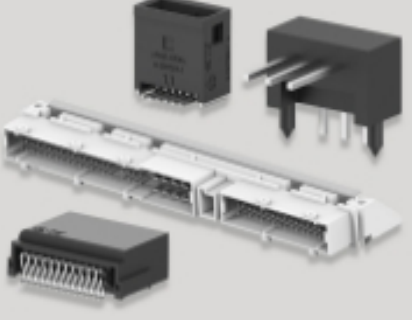


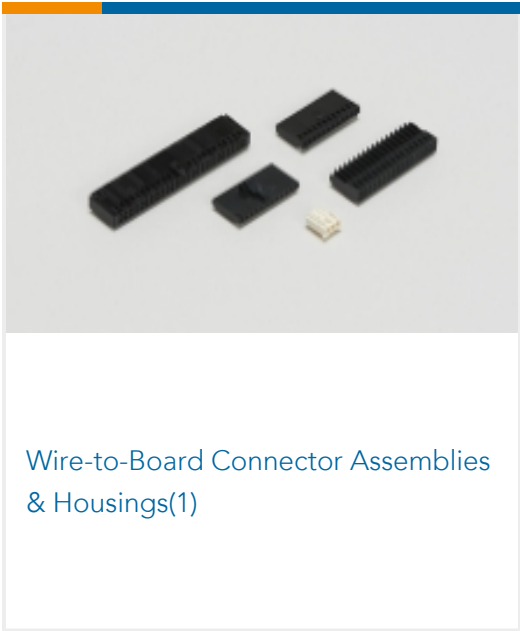
will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or 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 # 1903392-1 GIC 2.5 W CAP HSG 3P NATURAL	 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 # CAT-G7534A-C1701 STD Temp Sig GRACE INERTIA Cap
 TE Part # 1971032-7 7pos header assembly for gic 2.0 ev	 TE Part # 1971032-2 2POS HEADER ASSEMBLY FOR GIC 2.0 EV	 TE Part # 3-1971032-3 3POS 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 # 1971032-1 10POS HEADER ASSEMBLY FOR GIC 2.0 EV	 TE Part # 1971200-1 GIC 2.0 EV 5/8P HEADER ASSEMBLY

Also in the Series | GRACE INERTIA 2.0

 Connector Contacts(3)	 PCB Headers & Receptacles(70)	 Rectangular Connector Housings(20)	 Standard Rectangular Connectors(18)
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Customers Also Bought

TE Part #179844-1
AMP POWER D/LOCK T/HDR ASSY 2P

TE Part #1-292173-4
CT BOX HDR H SMT 4P O/TAPE NAT

TE Part #179464-1
POWER DBL LOCK CAP HSG F/H 3P

TE Part #170326-5
187 PL MKII REC. 18-14AWG PTPB

TE Part #2-292161-2
CT P/HDR ASSY V 2P W/KINK BLUE

TE Part #316293-1
3.2 CLUSTER BLOCK HSG NATURAL

TE Part #2013799-1
250 HSG. PL EX REC. BLACK

TE Part #280002-1
AMPLIVAR SPLICE

TE Part #2013485-1
GIC 2.5 HDR ASSY TIN VERSION 3/5P

Documents

- Product Drawings

3P HEADER ASSEMBLY FOR GIC 2.0 EV

English
- CAD Files

3D PDF

3D
- Customer View Model

ENG_CVM_CVM_1971032-3_D.2d_dxf.zip



English

Customer View Model

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

English

Customer View Model

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

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English