

GRACE INERTIA 2.0

TE Internal #: 1747070-1

PCB Mount Header, Vertical, Wire-to-Board, 10 Position, 2 mm [.079 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, GRACE INERTIA 2.0

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Connectors > PCB Connectors > PCB Headers & Receptacles



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

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

Number of Positions: **10**

Number of Rows: **1**

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

Features

Product Type Features

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

Configuration Features

Number of Positions	10
Number of Rows	1
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	50 VAC
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Body Features

Primary Product Color	Natural
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Contact Features

PCB Contact Termination Area Plating Material Thickness	.8 µm[31.496 µin]
Contact Layout	Inline
Mating Tab Width	.7 mm[.028 in]
Mating Tab Thickness	.5 mm[.02 in]
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Mating Area Plating Material Thickness	.3 µm[11.81 µin]
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	Gold
Contact Type	Tab
Contact Current Rating (Max)	2.5 A

Termination Features

Square Termination Post & Tail Dimension	.5 mm[.02 in]
Termination Post & Tail Length	3 mm[.118 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	Polarization
Mating Retention	With
Panel Mount Feature	Without
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
Centerline (Pitch)	2 mm[.079 in]

Dimensions

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Connector Length	10 mm[.393 in]
Connector Height	11.3 mm[.444 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
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	500
Packaging Method	Bag

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 265°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

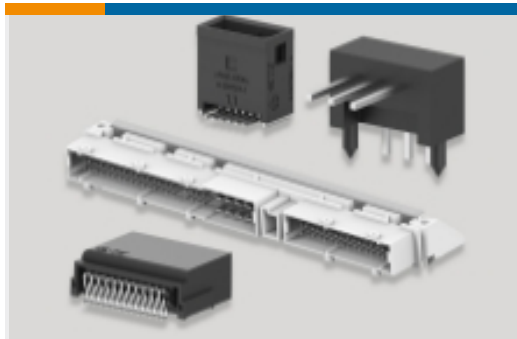


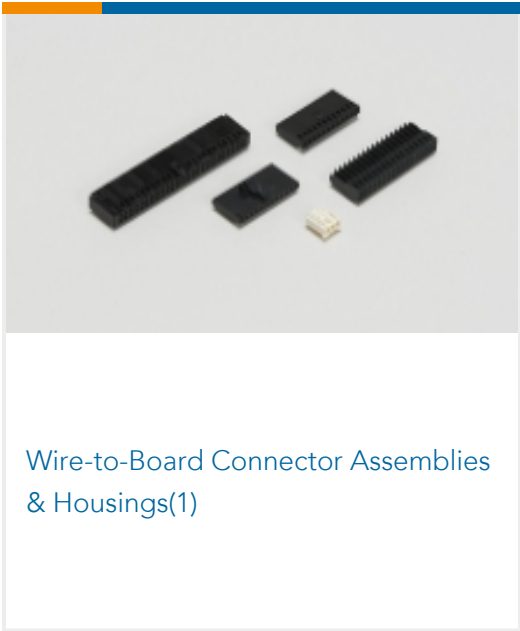
on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

 TE Part # 1747069-1 GRACE INERTIA CONN 2.0 PLUG HSG 10P NATU	 TE Part # 1-1747070-1 GRACE INERTIA ONN 2.0 HDR ASSY 10P RED	 TE Part # 1-2013924-1 GIC 2.0 HDR ASSY 10POS TIN VERTION (RED)	 TE Part # 1827229-6 GIC 2.0 HDR ASSY 20P
 TE Part # 2-1747070-1 GRACE INERTIA CONN 2.0 HDR ASSY 10P BLUE	 TE Part # 2-2013924-1 GIC 2.0 HDR ASSY 10P TIN VERTION (BLUE)	 TE Part # 2013924-1 GIC 2.0 HDR ASSY 10POS TIN VERTION (NAT)	 TE Part # 3-1747070-1 GRACE INERTIA CONN 2.0 HDR ASSY 10P YELL
 TE Part # 3-2013924-1 GIC 2.0 HDR ASSY 10P TIN VERTION YELLOW			

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



Documents

Product Drawings

GRACE INERTIA CONN 2.0 HDR ASSY 10P NATU

Japanese

CAD Files

Customer View Model

ENG_CVM_CVM_1747070-1_F.2d_dxf.zip

English

3D PDF



3D

Customer View Model

[ENG_CVM_CVM_1747070-1_F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1747070-1_F.3d_stp.zip](#)

English

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[Product Specifications](#)

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Japanese