

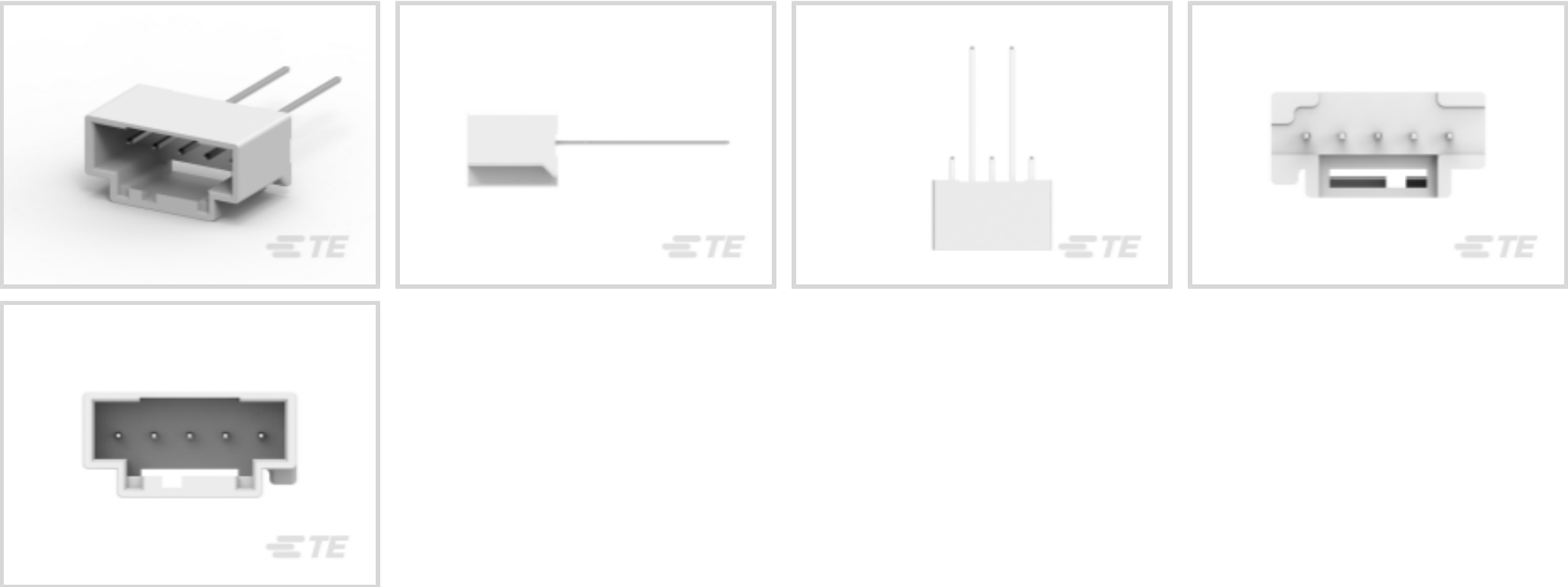


GRACE INERTIA 2.5

TE Internal #: 5-2232546-1  
PCB Mount Header, Vertical, Wire-to-Board, 5 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 2.5

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**  
Connector System: **Wire-to-Board**  
Number of Positions: **5**  
Number of Rows: **1**  
Centerline (Pitch): **2.5 mm [ .098 in ]**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
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 Columns	5
Number of Loaded Positions	5
Connector Contact Load Condition	Fully Loaded
Number of Signal Positions	5
Number of Positions	5
Number of Rows	1



PCB Mount Orientation	Vertical
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Electrical Characteristics

Operating Voltage	50 VAC
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Body Features

Connector & Keying Code	A
Primary Product Color	Natural

Contact Features

Contact Mating Area Length	3.8 mm[.149 in]
Contact Size	.5mm
Mating Square Post Dimension	.5 mm[.02 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
Contact Layout	Inline
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Mating Area Plating Material Thickness	1 µm[39.37 µin]
Contact Shape & Form	Square
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)	3 A

Termination Features

Square Termination Post & Tail Dimension	.5 mm[.02 in]
Termination Post & Tail Length	3 mm, 16.85 mm[.118 in][.663 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Keyed
Mating Retention	Without
Panel Mount Feature	Without
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without



PCB Mount Retention	Without
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Housing Features

Mating Entry Location	Top
Housing Material	66 Nylon (GF)
Centerline (Pitch)	2.5 mm[.098 in]

Dimensions

Connector Length	15 mm[.59 in]
PCB Thickness (Recommended)	1.6 mm, 2 mm[.062 in][.078 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

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	450
Packaging Method	Carton

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	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 # 2232983-1  
EP 2.5 LIF RCPT CONTACT, 24-20 AWG

TE Part # 2232905-1  
EP 2.5 LIF RCPT CONTACT, 26-22 AWG

TE Part # 5-1971794-1  
NEW GI CONN2.5 TPA 5P BLACK

TE Part # 5-1971793-1  
NEW GI CONN2.5 PLUG HSG 5P NC

TE Part # CAT-G7534A-P729  
STD Temp Sig GRACE INERTIA Plug

TE Part # 1744423-1  
EP 2.5 RCPT CONTACT, 24-20 AWG

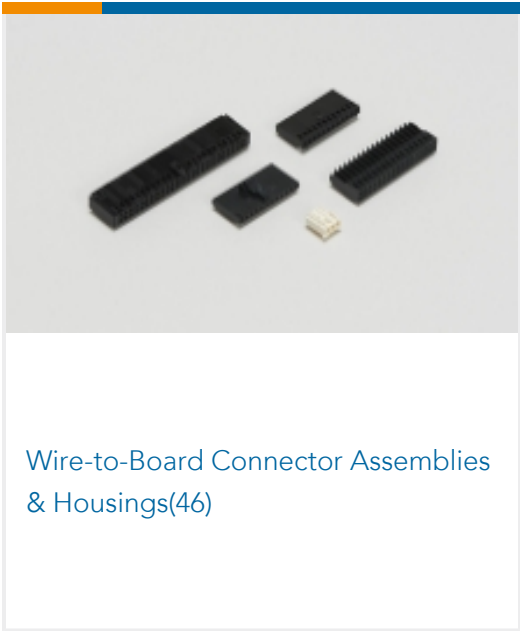
Also in the Series | GRACE INERTIA 2.5

Connector Contacts(6)

Connector Hardware(7)

PCB Headers & Receptacles(173)

Rectangular Connector Housings(49)



Customers Also Bought



Documents

Product Drawings

GI2.5 HDR ASS 5P NC NO BOSS TAPE

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-2232546-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-2232546-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-2232546-1\_A.3d\_stp.zip

English

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Product Specifications

Product Specification

English