



GRACE INERTIA 2.5

TE Internal #: 1871843-5
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

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**
PCB Mount Orientation: **Vertical**
Connector System: **Wire-to-Board**
Number of Positions: **5**
Number of Rows: **1**

Features

Electrical Characteristics

Operating Voltage	50 VDC
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Dimensions

PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	11.3 mm[.44 in]
Connector Length	17.5 mm[.688 in]

Packaging Features

Packaging Quantity	300
Packaging Method	Bag

Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Mechanical Attachment

Panel Mount Feature	Without
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Mating Retention Type	Latch
Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Retention Type	Kinked
PCB Mount Alignment Type	Locating Posts
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

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

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 μm[50 μin]
Contact Mating Area Plating Material Thickness	1 μm[39.37 μin]
Mating Tab Width	.7 mm[.028 in]
PCB Contact Termination Area Plating Material Thickness	1 μm[39.37 μin]
Contact Layout	Inline
Contact Base Material	Brass
Mating Tab Thickness	.5 mm[.02 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	2.7 A

Housing Features

Housing Material	Nylon
Centerline (Pitch)	2.5 mm[.098 in]

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

PCB Mount Orientation	Vertical
Number of Positions	5
Number of Rows	1

Body Features

Primary Product Color	Natural
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Usage Conditions

Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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

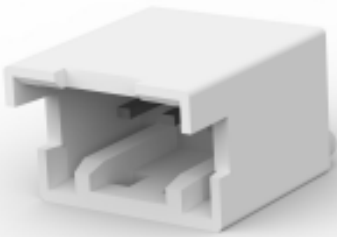
Product Compliance Disclaimer

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

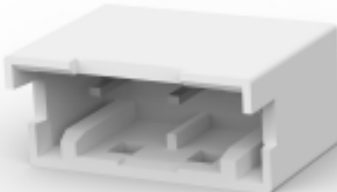


numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the 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 # 1871843-3
GIC 2.5 HDR ASSY TIN VERSION 3P



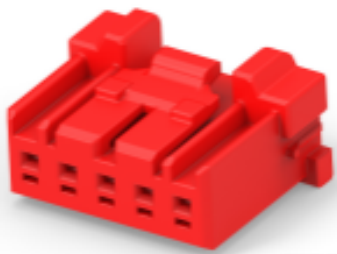
TE Part # 2013485-1
GIC 2.5 HDR ASSY TIN VERSION 3/5P



TE Part # 1747066-5
GRACE INERTIA CONN 2.5 PLUG
HSG 5P NATUR




TE Part # 2013523-1
GIC 2.5 HDR ASSY TIN VERSION 2/3P




TE Part # 1-1747066-5
GRACE INERTIA CONN 2.5 PLUG
HSG 5P RED

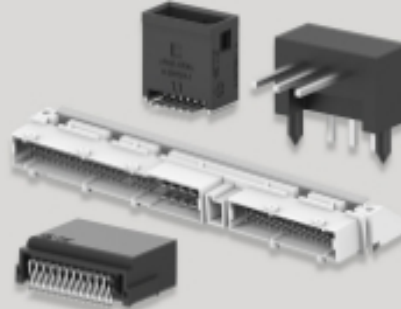
Also in the Series | GRACE INERTIA 2.5




Connector Contacts(6)




Connector Hardware(7)




PCB Headers & Receptacles(173)




Power Contacts(2)



Rectangular Connector Housings(49)



Wire-to-Board Connector Assemblies & Housings(47)



Wire-to-Board Headers & Receptacles (173)

Customers Also Bought



TE Part #1-1747052-5
GIC7.92 2POS_HDR ASS'Y GREEN
KEYING B

TE Part #5-1971798-3
NEW GI CONN2.5 HDR ASMBLY 5P
RED D1.0

TE Part #1-1747052-2
GIC 7.92MM CONN HDR ASS'Y 2POS
RED

TE Part #1747052-2
GIC7.92 2POS_HEADER ASS'Y RED
KEYING A

TE Part #1747996-1
GHC EYELET 12.4 2POS HEADER
ASSY NATURAL

TE Part #2-1747052-2
GIC7.92 2POS_HDR ASS'Y RED
KEYING C

TE Part #3-1747052-1
GIC7.92 2POS_HDR ASS'Y NAT
KEYING D

TE Part #1-1747052-3
GIC7.92 2POS_HEADER ASS'Y BLUE
KEYING B

TE Part #2-2360545-4
SGI 1.5 HDR, 4P, RA, Key B, Black

TE Part #1-2328608-7

Documents

Product Drawings

GIC2.5 HDR ASSY TIN VERSION 5P NATURAL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1871843-5_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1871843-5_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1871843-5_D.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications



Application Specification

English