1871843-5 ✔ ACTIVE

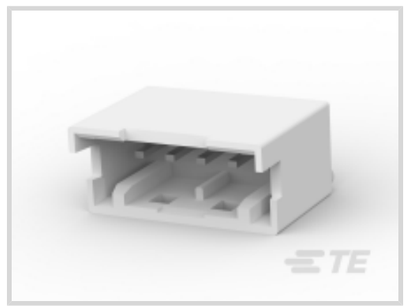
GRACE INERTIA | GRACE INERTIA 2.5

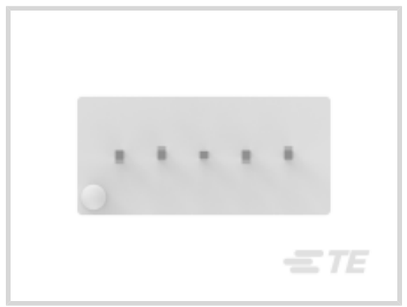
TE Internal #: 1871843-5

PCB Mount Header, Vertical, Wire-to-Board, 5 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin (Sn), Through Hole - Solder, GRACE INERTIA 2.5

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles




PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **5**

Centerline (Pitch): **2.5 mm [.098 in]**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

Operating Voltage	50 VDC

Body Features

Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 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 (Sn)
Contact Mating Area Plating Material Thickness	1 µm[39.37 µin]
Contact Type	Tab
Contact Current Rating (Max)	2.7 A

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

Mechanical Attachment

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

Housing Features

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

Dimensions

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

Usage Conditions

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

Operation/Application

Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	300
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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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 # 1747066-5
GRACE INERTIA CONN 2.5 PLUG HSG 5P NATUR



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

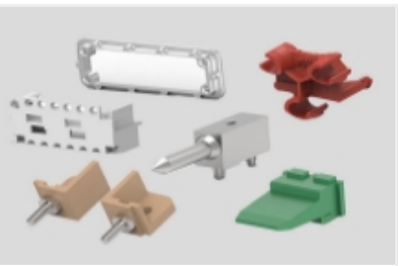


TE Part # 2013523-1
GIC 2.5 HDR ASSY TIN VERSION 2/3P

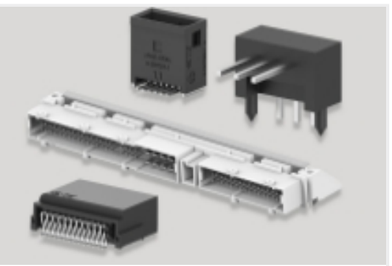
Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



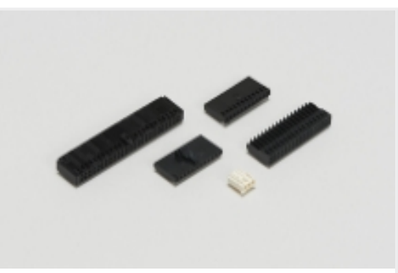
PCB Headers & Receptacles(173)



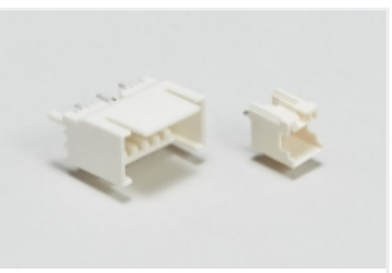
Power Contacts(2)



Rectangular Power Connectors(44)



Wire-to-Board Connector Assemblies & Housings(36)

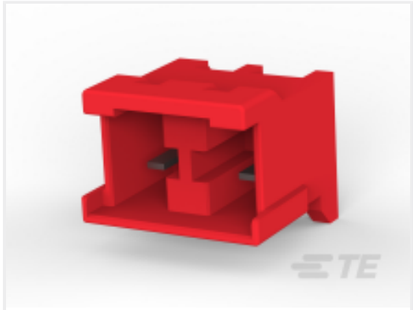


Wire-to-Board Headers & Receptacles (173)

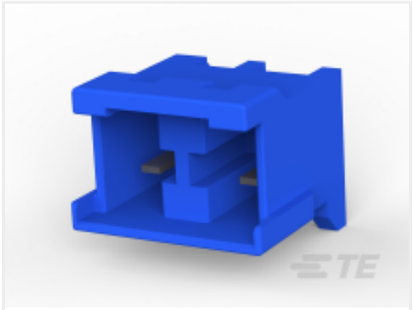
Customers Also Bought



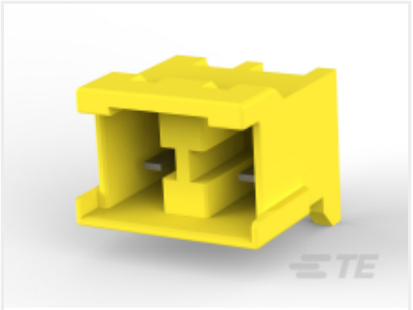
TE Part #1747052-1
GRACE INERTIA CONNECTOR 7.92 2POS_HEADER



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



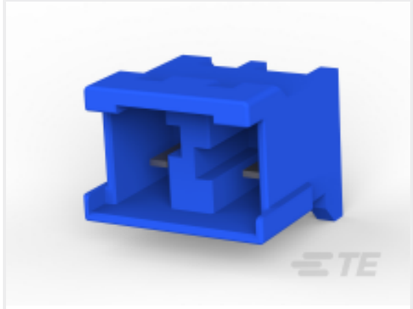
TE Part #1747052-3
GIC7.92 2POS_HEADER ASSY BLUE



TE Part #1747052-4
GIC7.92 2POS_HEADER ASS'Y YELLO KEYING A



TE Part #1747052-5
GRACE INERTIA CONNECTOR 7.92 2POS HEADER



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



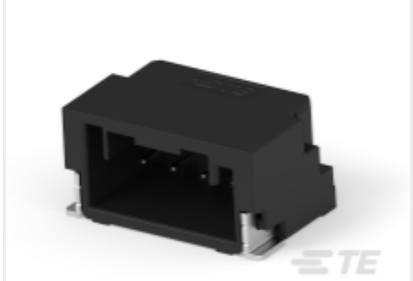
TE Part #2-1747052-4
GIC7.92 2POS_HDR ASS'Y YELLOW KEYING C



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



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



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

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