2-2232546-1 ✔ ACTIVE

GRACE INERTIA | GRACE INERTIA 2.5

TE Internal #: 2-2232546-1

PCB Mount Header, Vertical, Wire-to-Board, 2 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: **2**

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

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
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

Number of Columns	2
Number of Loaded Positions	2
Number of Signal Positions	2
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical

Number of Positions	2
Number of Rows	1

Electrical Characteristics

Operating Voltage	50 VDC

Body Features

Connector & Keying Code	A
Primary Product Color	Natural

Contact Features

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

Termination Features

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

Mechanical Attachment

Panel Mount Feature	Without
Mating Alignment Type	Keyed
PCB Mount Alignment	Without
Mating Retention	Without
PCB Mount Retention	Without

Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

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

Dimensions

PCB Thickness (Recommended)	1.6 mm, 2 mm[.062 in][.078 in]
Connector Length	7.5 mm[.295 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
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	900
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	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

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

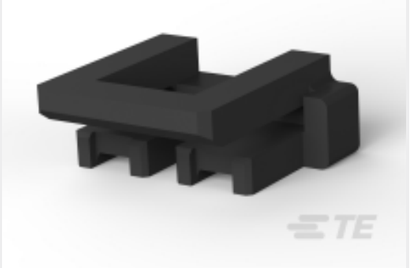
Compatible Parts



TE Part # 2-1971793-5
NEW GI CONN2.5 PLUG HSG 2P BLK



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



TE Part # 2-1971794-1
NEW GI CONN2.5 TPA 2P BLACK



TE Part # 2-1971793-1
NEW GI CONN2.5 PLUG HSG 2P NC



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

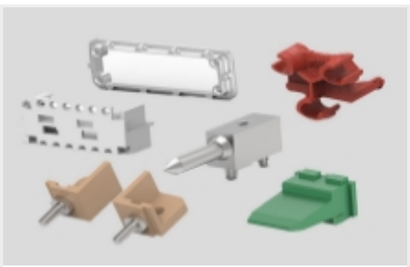


TE Part # 2232983-1
EP 2.5 LIF RCPT CONTACT, 24-20 AWG

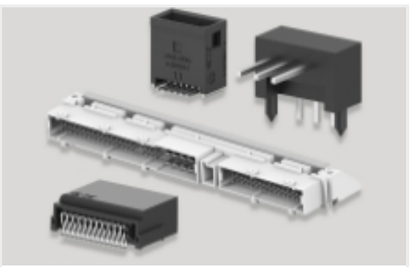
Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(173)



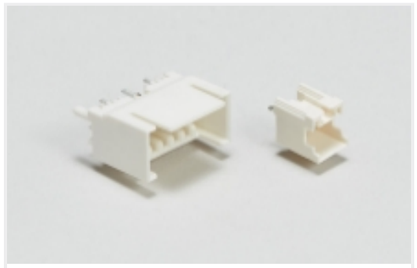
Power Contacts(2)



Rectangular Power Connectors(44)



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



Wire-to-Board Headers & Receptacles (173)

Customers Also Bought



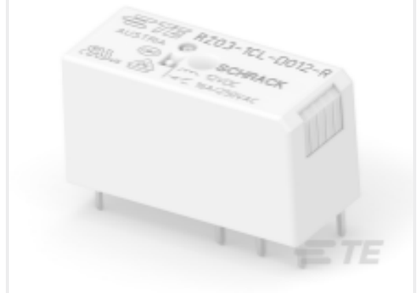
TE Part #1376384-6
5mm POWER KEY 4P HDR ASSEMBL HIGH TEMP



TE Part #4-1971798-1
NEW GI CONN2.5 HDR ASMBLY 4P NC D1.0



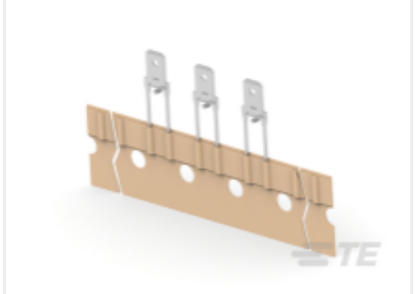
TE Part #7-1971845-4
4P, RAST 5 Tab Header, THV



TE Part #9-2158000-1
RZ03-1AL-D012-R



TE Part #4-2232511-3
3P, RAST 5 TAB HEADER, THV



TE Part #2382333-1
187 ASSY. TAPING AND REEL TAB

TE Part #2-2452953-4
4P POTTED RAST 2.5 HEADER



TE Part #1-2232963-4
14P POTTED RAST 2.5 HEADER

TE Part #2232967-5
Header Housing Assy, EP 2.5 RA, 5 Pos.



TE Part #2390868-6
6P, RAST 5 HEADER, PL, SHROUDED

Documents

Product Drawings

GI2.5 HDR ASS 2P NC NO BOSS TAPE

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-2232546-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-2232546-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-2232546-1_A.3d_stp.zip

English

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Product Specifications

Product Specification

English

Agency Approvals

UL Report

English