



GRACE INERTIA 2.5

TE Internal #: 1871843-4
PCB Mount Header, Vertical, Wire-to-Board, 4 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



Connector System: **Wire-to-Board**
Number of Positions: **4**
Number of Rows: **1**
Centerline (Pitch): **2.5 mm [.098 in]**
PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

Number of Positions	4
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	1 µm[39.37 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	1 µm[39.37 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Finish	Matte
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)	3.5 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	Boss
Mating Alignment Type	Polarization
Mating Retention	With
PCB Mount Retention Type	Kinked
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With

Housing Features

Housing Material	6/6 Nylon GF
Centerline (Pitch)	2.5 mm[.098 in]

Dimensions

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Connector Length	12.5 mm[.492 in]
Connector Height	11.3 mm[.44 in]
Connector Width	7 mm[.27 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

Compatible With Agency/Standards Products	UL
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	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

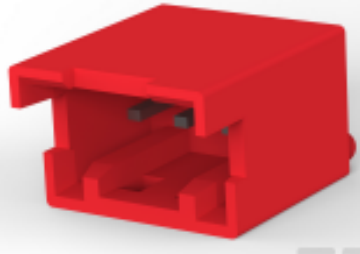
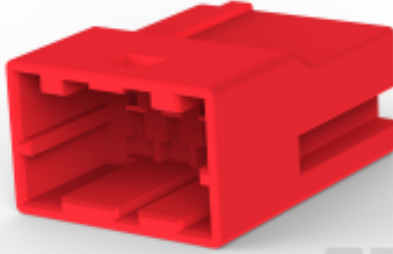
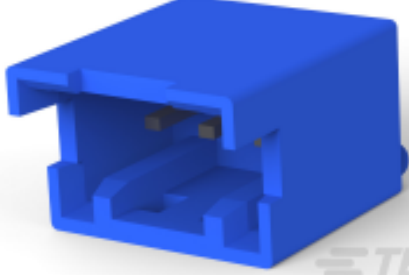
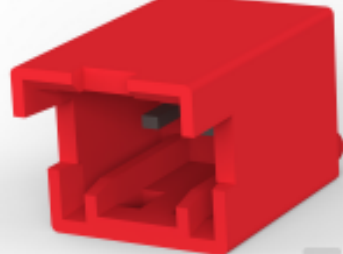
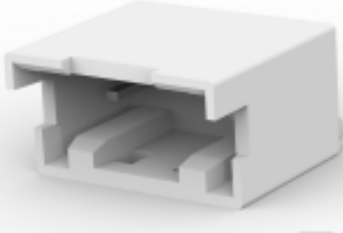
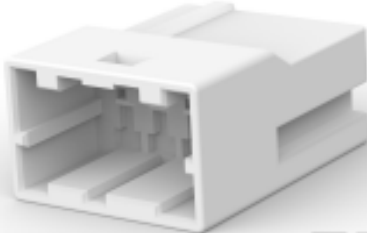
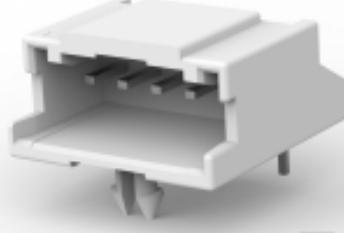
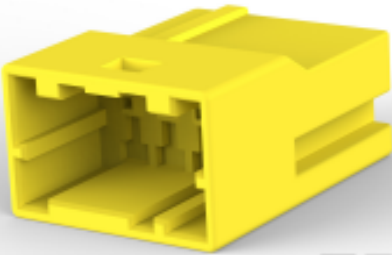
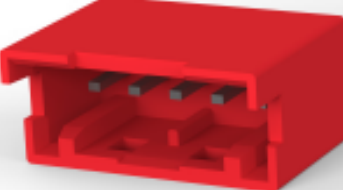
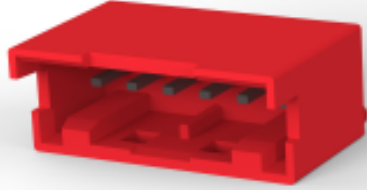
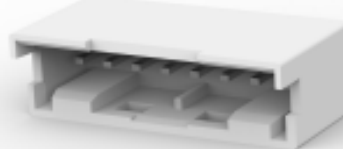
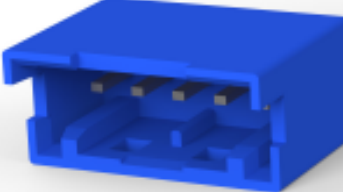
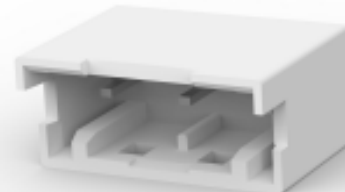
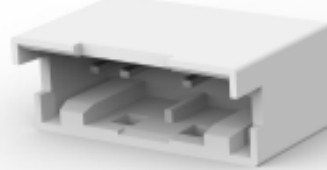
Product Compliance Disclaimer

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 # 1-1871843-3 GIC 2.5 HDR ASSY TIN VERSION 3P RED	 TE Part # 1-1903393-2 GIC 2.5 W CAP HSG 4P RED	 TE Part # 2-1871843-3 GIC 2.5 HDR ASSY TIN VERSION 3P BLUE	 TE Part # 1-1871843-2 GIC2.5 HDR ASSY TIN VERSION 2P RED
 TE Part # 2134303-1 GIC 2.5 HDR ASSY TIN VERSION 2/4P	 TE Part # 1903393-1 GIC 2.5 W CAP HSG 4P NATURAL	 TE Part # 1903535-1 GIC 2.5 PITCH CONN. HDR Assy (5 POS)	 TE Part # 3-1903393-4 GIC 2.5 W CAP HSG 4P YELLOW
 TE Part # 1-1871843-5 GIC 2.5 HDR ASSY TIN VERSION 5P RED	 TE Part # 1-1871843-6 GIC2.5 HDR ASSY TIN VERSION 6P RED	 TE Part # 1-1871843-8 GIC 2.5 HDR ASSY TIN VERSION 8P RED	 TE Part # 1871843-8 GIC2.5 HDR ASSY TIN VERSION 8P NATURAL
 TE Part # 2-1871843-5 GIC 2.5 HDR ASSY TIN VERSION 5P BLUE	 TE Part # 2013485-1 GIC 2.5 HDR ASSY TIN VERSION 3/5P	 TE Part # 2013523-1 GIC 2.5 HDR ASSY TIN VERSION 2/3P	 TE Part # 2069625-1 GIC 2.5 HDR ASSY TIN VERSION 4/6P



TE Part # 3-1871843-3
GIC 2.5 HDR ASSY TIN VERSION 3P
YELLOW

TE Part # 3-1871843-5
GIC 2.5 HDR TIN VERSION 5P
YELLOW

Also in the Series | GRACE INERTIA 2.5

Connector Contacts(6)

Connector Hardware(7)

PCB Headers & Receptacles(138)

Rectangular Connector Housings(49)

Rectangular Power Connectors(35)

Wire-to-Board Connector Assemblies
& Housings(46)

Customers Also Bought

TE Part #292161-9
CT P/HDR ASSY V 9P W/KINK NAT

TE Part #179844-1
STD Temp Power Double Lock Header

TE Part #1-292173-4
CT BOX HDR H SMT 4P O/TAPE NAT

TE Part #9-176975-1
AMP UNIVERSAL POWER PLG 2P PCB

TE Part #3-176976-4
UNIV.POWER HDR ASSY 3P

TE Part #1871845-3
GIC 2.5 ON TAPE HDR TIN VERSION
3P

TE Part #5-1376492-2
2.5 SMC HDR 2P WHITE TAPE

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



Documents

Product Drawings

GIC2.5 HDR ASSY TIN VERSION 4P NATURAL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1871843-4_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1871843-4_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1871843-4_D.3d_stp.zip

English

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Product Specifications

Application Specification

English