

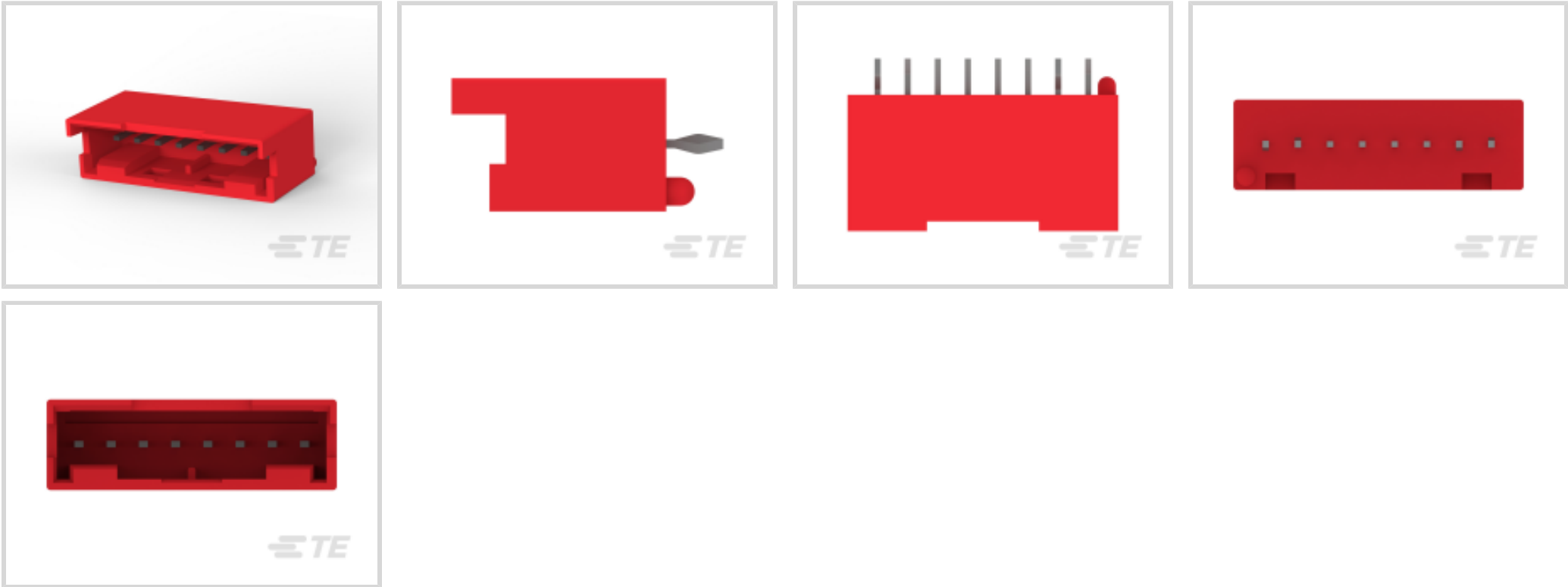


GRACE INERTIA 2.5

TE Internal #: 1-1871843-8
PCB Mount Header, Vertical, Wire-to-Board, 8 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



Connector System: **Wire-to-Board**
Number of Positions: **8**
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	8
Number of Rows	1
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	50 VAC
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Body Features

Primary Product Color	Red
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Contact Features

Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
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 Printed Circuit Board	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	22.5 mm[.88 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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Packaging Features

Packaging Quantity	200
Packaging Type	Bag

Product Compliance

For compliance documentation, visit the product page on TE.com>

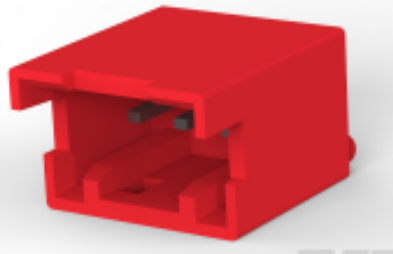
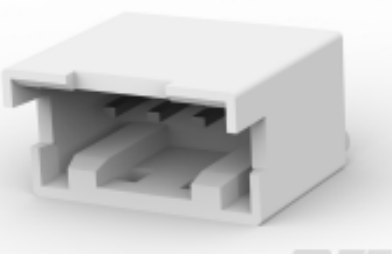
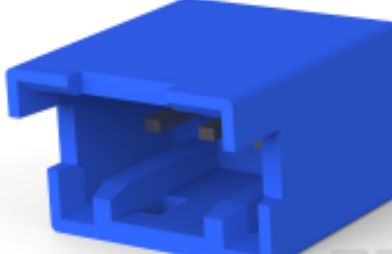
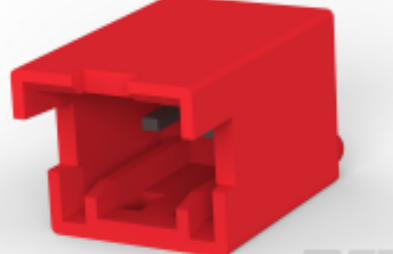
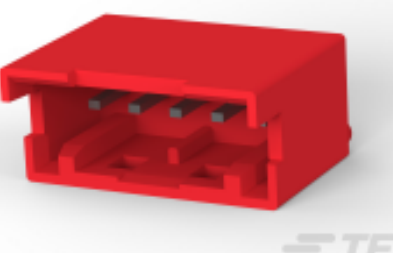
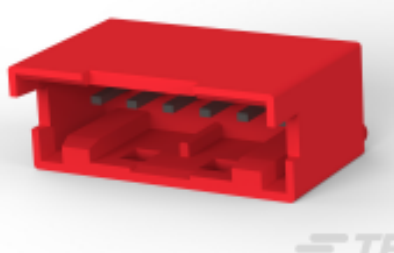
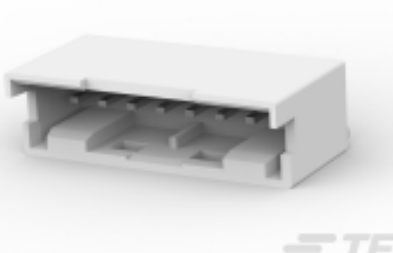
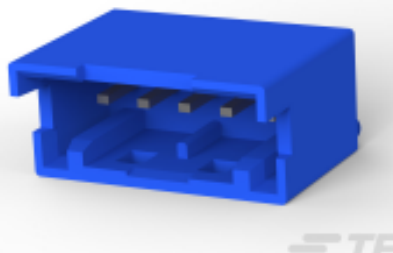
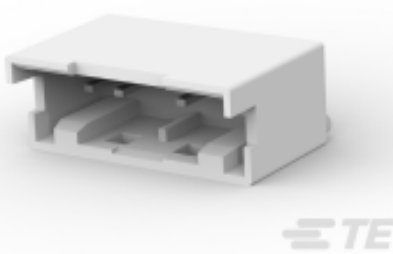
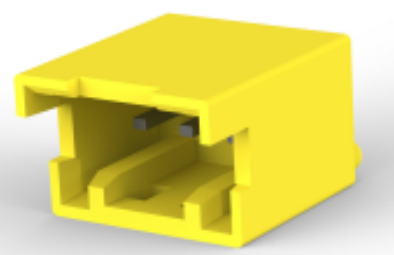
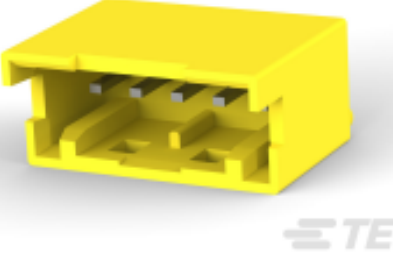
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

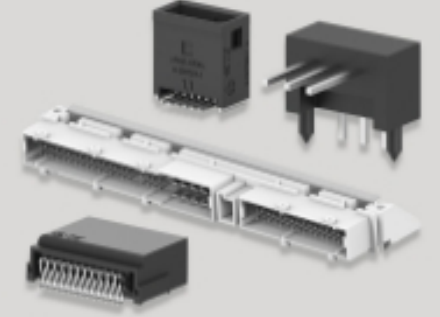
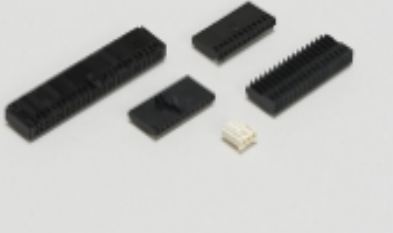
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 1871843-4 GIC2.5 HDR ASSY TIN VERSION 4P NATURAL	 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 # 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 # 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 # 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(2)	 PCB Headers & Receptacles(138)	 PCB Latches, Locks & Retainers(5)	 Rectangular Connector Housings(49)
 Rectangular Connector Locking(2)	 Rectangular Power Connectors(35)	 Wire-to-Board Connector Assemblies & Housings(72)	 Wire-to-Board Connector Contacts(5)



Documents

Product Drawings

GIC 2.5 HDR ASSY TIN VERSION 8P RED

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1871843-8_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1871843-8_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1871843-8_D.3d_stp.zip

English

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Product Specifications

Application Specification

English

Product Environmental Compliance

Product Compliance

English

Product Compliance

English