2-1871843-3 ✔ ACTIVE

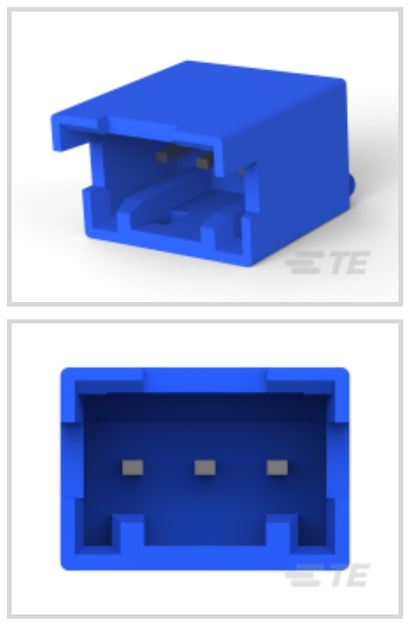
GRACE INERTIA | GRACE INERTIA 2.5

TE Internal #: 2-1871843-3

PCB Mount Header, Vertical, Wire-to-Board, 3 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: **3**

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	3
Number of Rows	1

Electrical Characteristics

Operating Voltage	50 VDC

Body Features

Primary Product Color	Blue

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination Area Plating Material Finish	Matte
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 Finish	Matte
Contact Mating Area Plating Material Thickness	1 µm[39.37 µin]
Contact Type	Tab
Contact Current Rating (Max)	3.5 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	Boss
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

Connector Width	7 mm[.27 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	11.3 mm[.44 in]
Connector Length	10 mm[.393 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	400
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 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

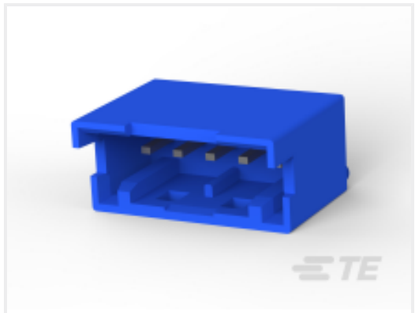
Compatible Parts



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



TE Part # 1871843-8
GIC2.5 HDR ASSY TIN VERSION 8P NATURAL



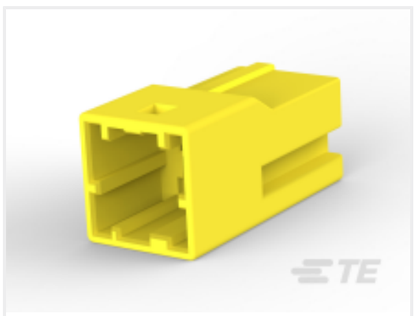
TE Part # 2-1871843-5
GIC 2.5 HDR ASSY TIN VERSION 5P BLUE



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 # CAT-G7534A-C1701
STD Temp Sig GRACE INERTIA Cap



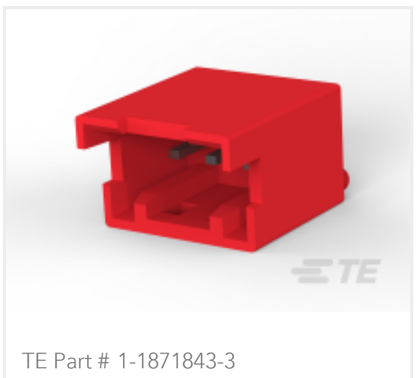
TE Part # 1871843-4
GIC2.5 HDR ASSY TIN VERSION 4P NATURAL



TE Part # 1903392-1
GIC 2.5 W CAP HSG 3P NATURAL



TE Part # 1-1871843-2
GIC2.5 HDR ASSY TIN VERSION 2P RED



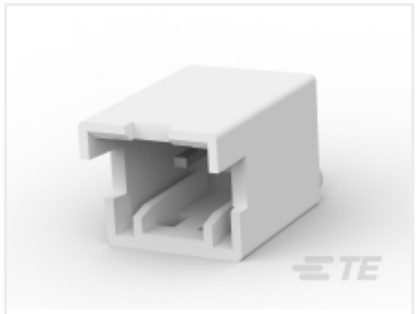
TE Part # 1-1871843-3
GIC 2.5 HDR ASSY TIN VERSION 3P RED



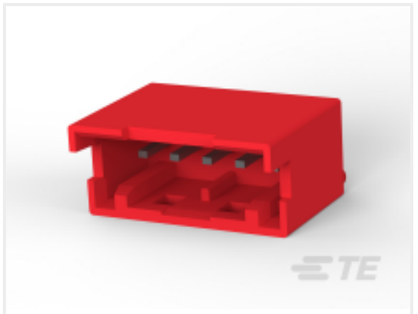
TE Part # 1-1871843-6
GIC2.5 HDR ASSY TIN VERSION 6P RED



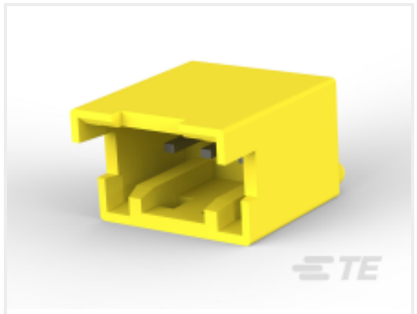
TE Part # 1-1871843-8
GIC 2.5 HDR ASSY TIN VERSION 8P RED



TE Part # 1871843-2
GIC 2.5 HDR ASSY TIN VERSION 2P



TE Part # 1-1871843-5
GIC 2.5 HDR ASSY TIN VERSION 5P RED

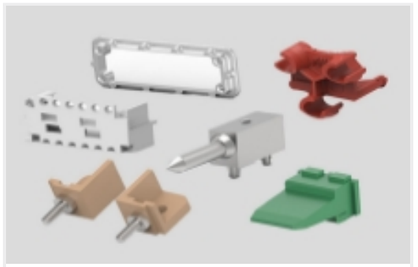


TE Part # 3-1871843-3
GIC 2.5 HDR ASSY TIN VERSION 3P YELLOW

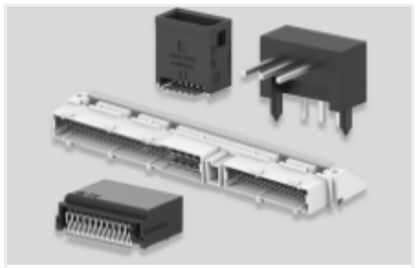
Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(173)



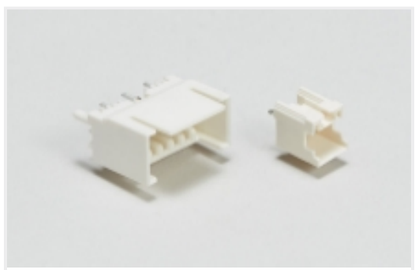
Power Contacts(2)



Rectangular Power Connectors(44)



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



Wire-to-Board Headers & Receptacles (173)

Customers Also Bought



TE Part #179844-1
AMP POWER D/LOCK T/HDR ASSY 2P



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



TE Part #1971032-5
5P HEADER ASSEMBLY FOR GIC 2.0 EV

Documents

Product Drawings

GIC 2.5 HDR ASSY TIN VERSION 3P BLUE

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-1871843-3_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-1871843-3_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-1871843-3_D.3d_stp.zip

English

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Product Specifications

Application Specification

English