

2134303-1 ✓ ACTIVE

## GRACE INERTIA 2.5

TE Internal #: 2134303-1

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



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **4**

Number of Rows: **1**

### Features

#### Electrical Characteristics

Operating Voltage	50 VAC
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#### Dimensions

Connector Width	7 mm[.27 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	11.3 mm[.44 in]
Connector Length	12.5 mm[.49 in]

#### Packaging Features

Packaging Quantity	300
Packaging Method	Bag

#### Mechanical Attachment

Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Retention Type	Kinked
PCB Mount Alignment Type	Locating Posts



PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

#### Termination Features

Square Termination Post & Tail Dimension	.5 mm[.02 in]
Termination Method to PCB	Through Hole - Solder

#### Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	1 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]
Mating Tab Width	.7 mm[.028 in]
PCB Contact Termination Area Plating Material Thickness	1 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]
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 Finish	Matte
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	3.5 A

#### Housing Features

Housing Material	Nylon 66
Centerline (Pitch)	2.5 mm[.098 in]

#### Product Type Features

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

#### Configuration Features



PCB Mount Orientation	Vertical
Number of Positions	4
Number of Rows	1

### Body Features

Primary Product Color	Natural
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### 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

UL Flammability Rating	UL 94V-0
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### Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

## 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 # 2069625-1  
GIC 2.5 HDR ASSY TIN VERSION 4/6P



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



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



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



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



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



TE Part # 1903393-1  
GIC 2.5 W CAP HSG 4P NATURAL



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



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



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



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



TE Part # 3-1903393-4  
GIC 2.5 W CAP HSG 4P YELLOW



TE Part # 1903535-1  
GIC 2.5 PITCH CONN. HDR Assy (5 POS)



TE Part # 2069907-1  
GRACE INERTIA CONNECTOR 3/6 Pos HDR A



TE Part # 1-1903393-2  
GIC 2.5 W CAP HSG 4P RED

Also in the Series | **GRACE INERTIA 2.5**



Connector Contacts(6)



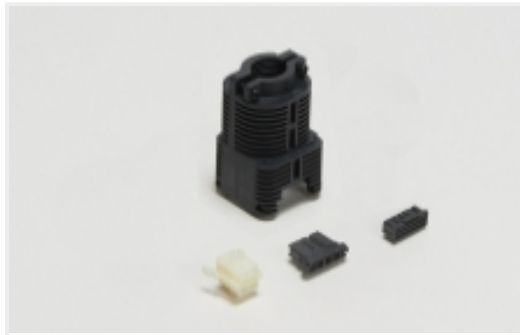
Connector Hardware(7)



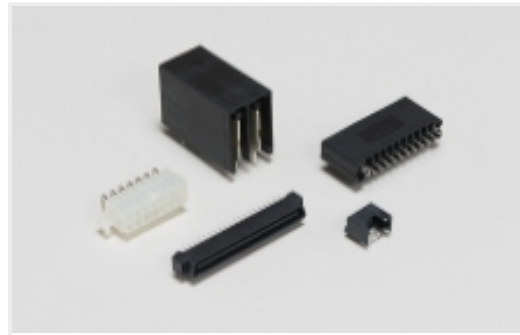
PCB Headers & Receptacles(173)



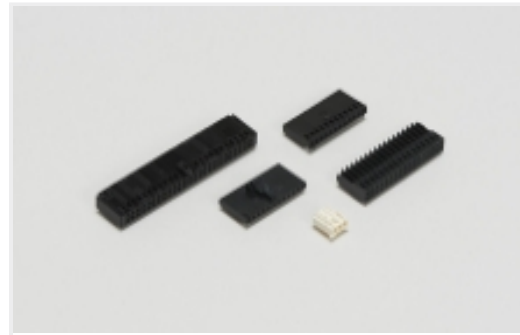
Power Contacts(2)



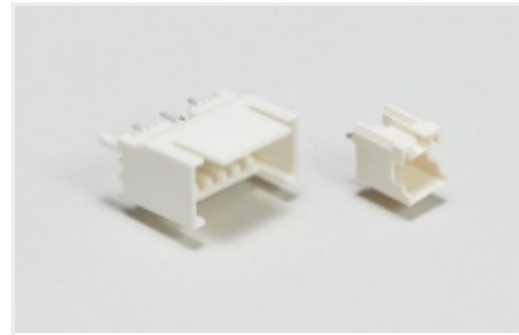
Rectangular Connector Housings(49)



Standard Rectangular Connectors(49)



Wire-to-Board Connector Assemblies & Housings(47)

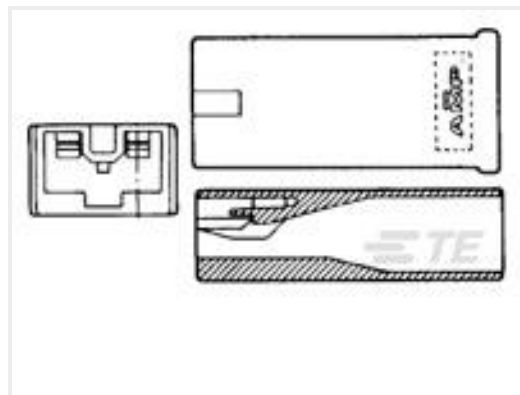


Wire-to-Board Headers & Receptacles (173)

## Customers Also Bought



TE Part #1-1473059-5  
3.96 EP CONN. HDR ASSY 5/7P(W/O4, 6)



TE Part #179970-1  
250 HSG. PL EX REC.



TE Part #179974-1  
250 PL EX REC. 18-14AWG PTBR



TE Part #CAT-G7534A-R2435  
Sig GRACE INERTIA Receptacle



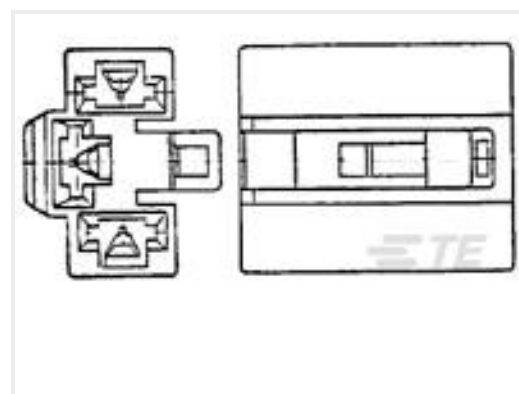
TE Part #1-1744524-4  
EP 04P HEADER ASY,GW, NO 3 PIN



TE Part #2311995-7  
EP2.5 HDR ASSY 7P VERT, GW,NO PIN 6



TE Part #917895-1  
2.5 S.D.L STD V 3P HDR ON/TAPE



TE Part #176774-5  
FF 250 PLUG HSG 3P NYLON NAT



TE Part #1376385-1  
5mm B-T-W Conn. 6P HDR ASSEMBL

## Documents



### Product Drawings

[GIC 2.5 HDR ASSY TIN VERSION 2/4P](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2134303-1\\_B.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2134303-1\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2134303-1\\_B.3d\\_stp.zip](#)

English

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### Product Specifications

[Application Specification](#)

English