



GRACE INERTIA 2.5

TE Internal #: 7-1971800-1
PCB Mount Header, Vertical, Wire-to-Board, 7 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: **7**
Number of Rows: **1**

Features

Mechanical Attachment

Mating Retention	With
Mating Alignment Type	Keyed, Polarization
Mating Retention Type	Locking
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

Rectangular Termination Post & Tail Width	.46 mm[.018 in]
Rectangular Termination Post & Tail Thickness	.46 mm[.018 in]
Termination Method to PCB	Through Hole - Solder

Contact Features

Contact Mating Area Plating Material Thickness	1 μm[40 μin]
Contact Mating Area Plating Material Finish	Matte



Mating Square Post Dimension	.5 mm[.02 in]
Contact Mating Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	3 A

Housing Features

Housing Material	Nylon
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
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

PCB Mount Orientation	Vertical
Number of Positions	7
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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Packaging Features

Packaging Method	Box
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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	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>

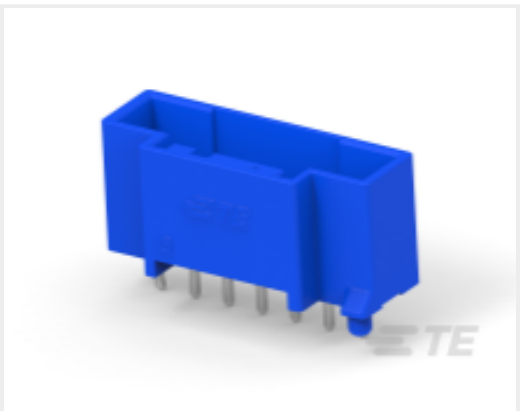
Compatible Parts



TE Part # 4-1971800-3
NEW GI CONN2.5 HDR ASMBLY 4P
RED D1.5



TE Part # 4-1971800-1
NEW GI CONN2.5 HDR ASMBLY 4P
NC D1.5



TE Part # 7-1971800-2
NEW GI CONN2.5 HDR ASMBLY 7P
BLU D1.5



TE Part # 7-1971798-5
NEW GI CONN2.5 HDR ASMBLY 7P
BLK D1.0



TE Part # 7-1971800-3
NEW GI CONN2.5 HDR ASMBLY 7P
RED D1.5



TE Part # 4-1971800-4
NEW GI CONN2.5 HDR ASMBLY 4P
YLW D1.5



TE Part # 6-1971798-5
NEW GI CONN2.5 HDR ASMBLY 6P
BLK D1.0



TE Part # 7-1971798-2
NEW GI CONN2.5 HDR ASMBLY 7P
BLU D1.0



TE Part # 7-1971798-3
NEW GI CONN2.5 HDR ASMBLY 7P
RED D1.0

TE Part # 8-1971798-5
NEW GI CONN2.5 HDR ASMBLY 8P
BLK D1.0

TE Part # 7-1971800-4
NEW GI CONN2.5 HDR ASMBLY 7P
YLW D1.5

TE Part # 4-1971800-2
NEW GI CONN2.5 HDR ASMBLY 4P
BLU D1.5

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)

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

Wire-to-Board Headers & Receptacles
(173)

Customers Also Bought

TE Part #2-1623795-3
SQP2 R047 5% WIRE

TE Part #1-1630019-4
HSC200 2K4 5%

TE Part #9-2176397-4
3502 7K5 1%

TE Part #1-1969694-4
PTL 1X4 PCB HEADER R/A HITEMP
KEY A LGR

TE Part #YD369-B99-AP400000
369 9 WAY PANEL MNT REC, 90 PCB
GOLD,PIN

TE Part #YD369-B99-NP400000
369 9 WAY PANEL MNT REC, 90 PCB
GOLD,PIN

TE Part #YD369-B99-NS400000
369 9 WAY PANEL MNT REC, 90 PCB
GOLD,SKT

TE Part #YDTS24T15-18PNV001
RECP ASSY



Documents

Product Drawings

NEW GI CONN2.5 HDR ASMBLY 7P NC D1.5

English

NEW GI CONN2.5 HDR ASMBLY 7P NC D1.5

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_7-1971800-1_E_c-7-1971800-1-e.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_7-1971800-1_E_c-7-1971800-1-e.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_7-1971800-1_E_c-7-1971800-1-e.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

Product Specification

English

Agency Approvals

UL

English