

1827738-1 ✓ ACTIVE

Grace Inertia | GRACE INERTIA 2.5

TE Internal #: 1827738-1

GRACE INERTIA 2.5, PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 2.5mm [.098in] Centerline, 1 Row, Gold, Natural Housing Color

[View on TE.com >](#)



Connectors > PCB Connectors > Wire-to-Board Connectors > Wire-to-Board Headers & Receptacles



PCB Connector Assembly 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 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	3
Number of Rows	1

Electrical Characteristics

Operating Voltage	50 VAC
-------------------	--------

Contact Features

Contact Layout	Inline
Contact Retention Within Housing	Without



PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Mating Tab Width	.7 mm[.028 in]
Mating Tab Thickness	.5 mm[.02 in]
Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination 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	Gold
Contact Mating Area Plating Material Thickness	.3 µm[11.81 µin]
Contact Type	Tab
Contact Current Rating (Max)	3 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
Strain Relief	Without
PCB Mount Retention Type	Kinked
PCB Mount Alignment	With
Mating Retention	With
PCB Mount Retention	With
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

Connector Length	15 mm[.59 in]
Connector Height	11.3 mm[.444 in]
Connector Width	6.8 mm[.26 in]



PCB Thickness (Recommended)	1.6 mm[.063 in]
-----------------------------	-----------------

Usage Conditions

Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]
-----------------------------	----------------------------

Operation/Application

Circuit Application	Signal
---------------------	--------

Industry Standards

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: JUL 2021 (219) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Not Yet Reviewed
--	---

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 # 1-1747067-6
GRACE INERTIA CONN 2.5 HDR ASSY 6P RED



TE Part # 1747067-5
GRACE INERTIA CONN 2.5 HDR ASSY 5P NATUR



TE Part # 1747067-2
GRACE INERTIA CONN 2.5 HDR ASSY 2P NATUR



TE Part # 2-1747067-6
GRACE INERTIA CONN 2.5 HDR ASSY 6P BLUE



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



TE Part # 2-1747067-4
GRACE INERTIA CONN 2.5 HDR ASSY 4P BLUE



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



TE Part # 1-1747067-2
GRACE INERTIA CONN 2.5 HDR ASSY 2P RED



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



TE Part # 1747508-1
GRACE INERTIA CONN 2.5 HDR ASSY 2/3P NAT



TE Part # 1747067-4
GRACE INERTIA CONN 2.5 HDR ASSY 4P NAT



TE Part # 1747509-1
GRACE INERTIA CONN 2.5 HDR ASSY 5/7P NAT



TE Part # 1747661-1
GRACE INERTIA CONN 2.5 HDR ASSY 3/5P NAT



TE Part # 3-1971797-1
NEW GI CONN2.5 HDR HSG 3P NC D1.0



TE Part # 3-1971797-2
NEW GI CONN2.5 HDR HSG 3P BLU D1.0



TE Part # 3-1971797-3
NEW GI CONN2.5 HDR HSG 3P RED D1.0



TE Part # 3-1971797-4
NEW GI CONN2.5 HDR HSG 3P YLW D1.0

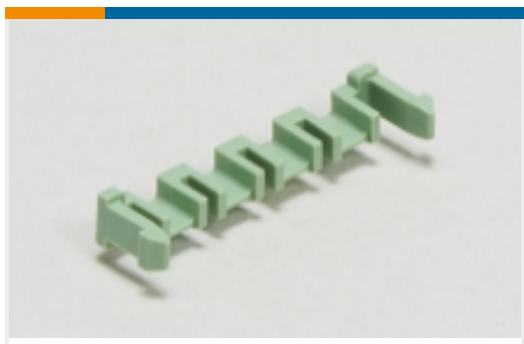


TE Part # 3-1971797-5
NEW GI CONN2.5 HDR HSG 3P BLK D1.0

Also in the Series | GRACE INERTIA 2.5



Connector Contacts(2)



PCB Latches, Locks & Retainers(5)



Rectangular Connector Housings(49)



Rectangular Connector Locking(2)



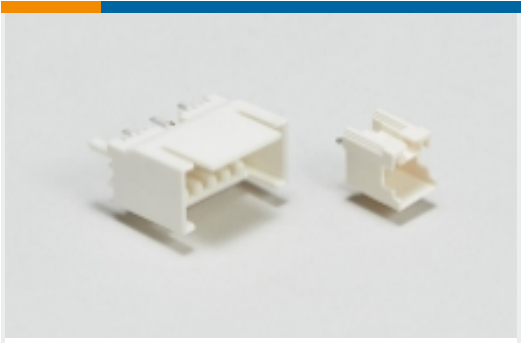
Rectangular Power Connectors(36)



Wire-to-Board Connector Assemblies & Housings(69)



Wire-to-Board Connector Contacts(4)



Wire-to-Board Headers & Receptacles (138)

Customers Also Bought



TE Part #5-1376492-4
2.5 SMC HDR 4POS WHITE TAPE



TE Part #5-1747511-1
GRACE INERTIA CONN 2.5 ON TAPE HDR 3/5P



TE Part #1747508-1
GRACE INERTIA CONN 2.5 HDR ASSY 2/3P NAT



TE Part #1747067-8
GRACE INERTIA CONN 2.5 HDR ASSY 8P NATUR



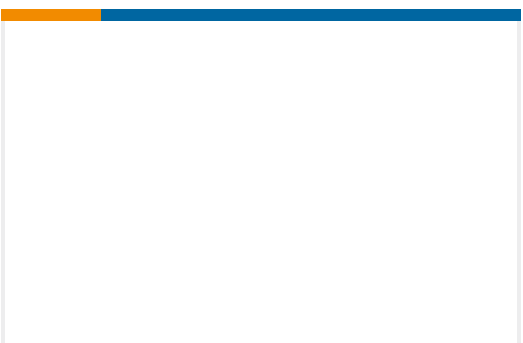
TE Part #5-1376500-2
2.5 SMC HDR 2(3)POS WHITE TAPE



TE Part #6-1376492-3
2.5MM SIGNAL MATE CONN ON TAPE



TE Part #1-1747066-5
GRACE INERTIA CONN 2.5 PLUG HSG 5P RED



TE Part #6-1747072-3
GRACE INERTIA CONN 2.5 ON TAPE HDR 3P RE

Documents

Product Drawings

[GIC 2.5 HDR ASSY SPECIAL 3/5P](#)

Japanese

[GIC 2.5 HDR ASSY SPECIAL 3/5P](#)

Japanese

CAD Files

[Customer View Model](#)

[ENG_CVM_CVM_1827738-1_C.2d_dxf.zip](#)

1827738-1

GRACE INERTIA 2.5, PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 2.5mm [.098in] Centerline, 1 Row, Gold, Natural Housing Color



English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1827738-1_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1827738-1_C.3d_stp.zip](#)

English

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

[Product Specifications](#)

[Application Specification](#)

English

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Headers & Wire Housings](#) category:

Click to view products by [TE Connectivity](#) manufacturer:

Other Similar products are found below :

[892-18-020-10-001101](#) [58102-G61-06LF](#) [582553-1](#) [0009485154](#) [009176003701906](#) [0050291907](#) [LY20-4P-DT1-P1E-BR](#) [02.125.8002.8](#)
[609-3404](#) [61062-3](#) [61082-181009](#) [622-3653LF](#) [63453-116](#) [636-1030](#) [636-1427](#) [636-3427](#) [636-4007](#) [641938-9](#) [641991-4](#) [644827-2](#) [65817-](#)
[010LF](#) [65817-015LF](#) [65863-015LF](#) [66207-023LF](#) [67095-007LF](#) [67601157](#) [68645-018](#) [68648-049](#) [70.362.1628.0](#) [70-4210](#) [70-4226B](#) [70-](#)
[4853B](#) [707-5020](#) [707-5028](#) [71.350.2428.0](#) [71918-208LF](#) [71961-016LF](#) [733-134](#) [733-162](#) [754199-000](#) [760-3052](#) [787-8014-00](#) [79531-3000](#)
[FCN-360C032-B](#) [FCN-367T-T012/H](#) [FCN-723D010/2](#) [80.063.4001.1](#) [800-90-001-10-001000](#) [800-90-010-10-002000](#) [801-43-002-10-013000](#)