

1827392-1 ✓ ACTIVE

GRACE INERTIA | GRACE INERTIA 3.3

TE Internal #: 1827392-1

PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 3.3 mm [.129 in] Centerline, Fully Shrouded, Tin (Sn), Through Hole - Solder, GRACE INERTIA 3.3

[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: **6**

Centerline (Pitch): **3.3 mm [.129 in]**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
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

Number of Columns	3
Number of Loaded Positions	6
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	6



Number of Rows	2
----------------	---

Number of Power Positions	6
---------------------------	---

Electrical Characteristics

Operating Voltage	250 VDC
-------------------	---------

Body Features

Primary Product Color	Natural
-----------------------	---------

Contact Features

Contact Underplating Material	Nickel
-------------------------------	--------

Contact Underplating Material Thickness	1.27 μm [50 μin]
---	---

Mating Tab Width	.7 mm[.028 in]
------------------	----------------

PCB Contact Termination Area Plating Material Thickness	2 μm [78.74 μin]
---	---

Contact Shape & Form	Rectangular
----------------------	-------------

Contact Layout	Matrix
----------------	--------

Contact Mating Area Length	3.65 mm[.143 in]
----------------------------	------------------

Contact Base Material	Brass
-----------------------	-------

Mating Tab Thickness	.5 mm[.02 in]
----------------------	---------------

Contact Mating Area Plating Material	Tin (Sn)
--------------------------------------	----------

Contact Mating Area Plating Material Thickness	2 μm [78.74 μin]
--	---

Contact Type	Tab
--------------	-----

Contact Current Rating (Max)	4 A
------------------------------	-----

PCB Contact Termination Area Plating Material	Tin
---	-----

Termination Features

Rectangular Termination Post & Tail Width	.5 mm[.02 in]
---	---------------

Rectangular Termination Post & Tail Thickness	.46 mm[.018 in]
---	-----------------

Termination Post & Tail Length	3 mm[.118 in]
--------------------------------	---------------

Termination Method to PCB	Through Hole - Solder
---------------------------	-----------------------

Mechanical Attachment

Panel Mount Feature	Without
---------------------	---------

Mating Retention Type	Locking Window
-----------------------	----------------

Mating Alignment Type	Keyed
-----------------------	-------

PCB Mount Retention Type	Kinked
--------------------------	--------

PCB Mount Alignment Type	Locating Posts
--------------------------	----------------



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

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	3.3 mm [.129 in]
Housing Material	Nylon 6/6 GF

Dimensions

Row-to-Row Spacing	5.2 mm [.205 in]
Connector Width	11.6 mm [.456 in]
PCB Thickness (Recommended)	1.6 mm [.062 in]
Connector Height	13.4 mm [.527 in]
Connector Length	12.4 mm [.488 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power
---------------------	-------

Industry Standards

Glow Wire Rating	GWT 750°C (Without Flame)
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	400
Packaging Method	Tray

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	有害物质含量符合标准要求 No Restricted

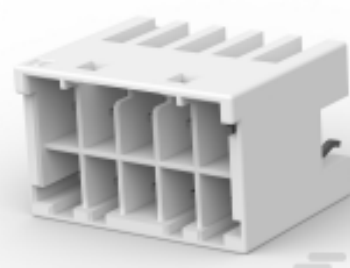
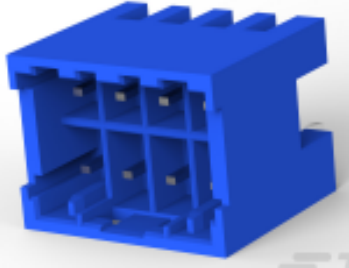
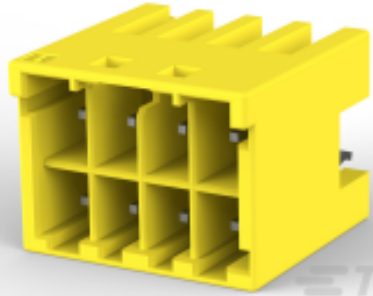
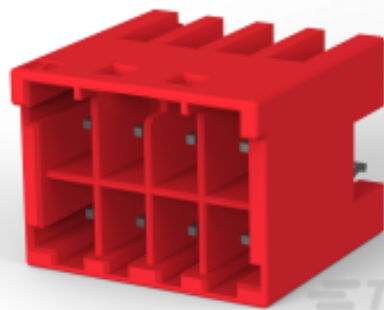


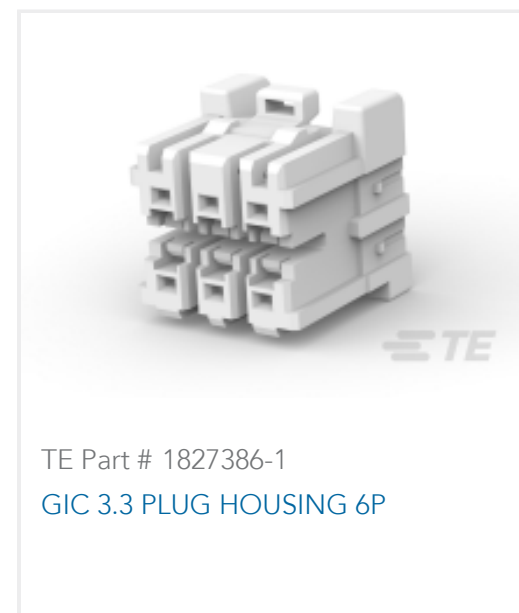
<p>EU REACH Regulation (EC) No. 1907/2006</p>	<p>Substance(s) Above Threshold</p> <p>Current ECHA Candidate List: JUNE 2025 (250)</p> <p>Candidate List Declared Against: JUNE 2025 (250)</p> <p>Does not contain REACH SVHC</p>
<p>Halogen Content</p>	<p>Not Low Halogen - contains Br or Cl > 900 ppm.</p>
<p>Solder Process Capability</p>	<p>Wave solder capable to 265°C</p>

Product Compliance Disclaimer

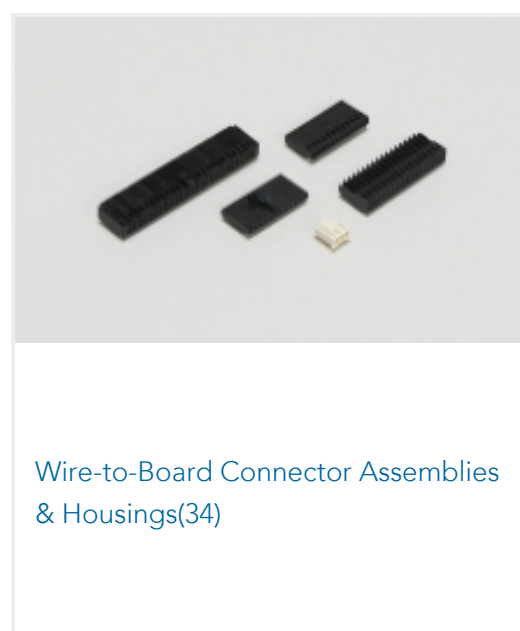
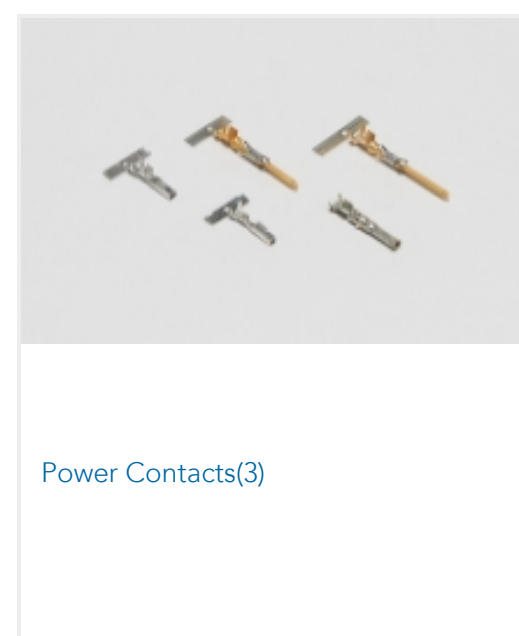
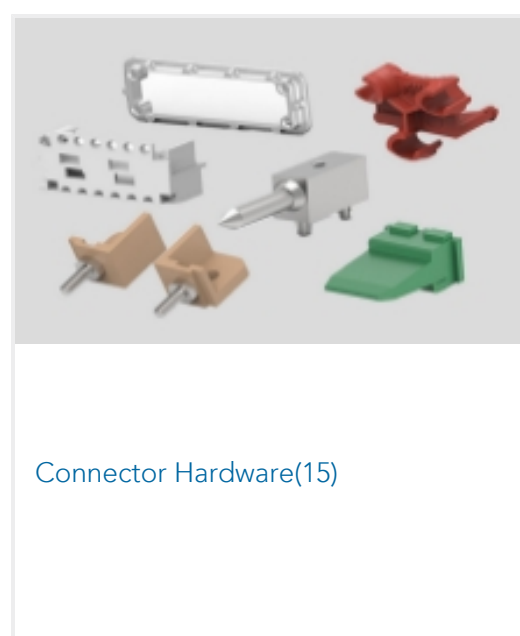
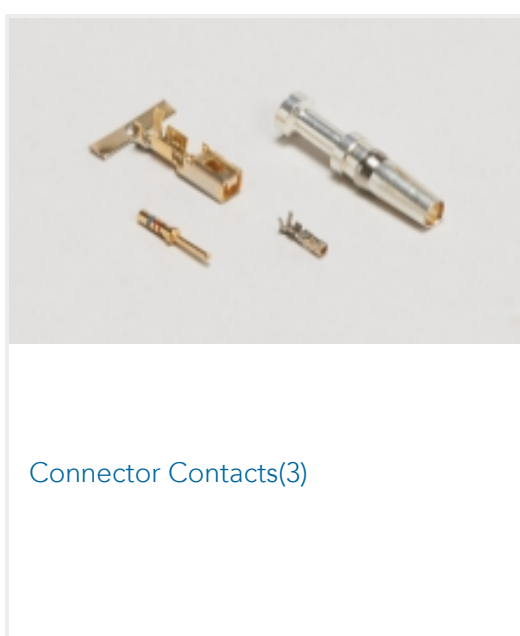
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

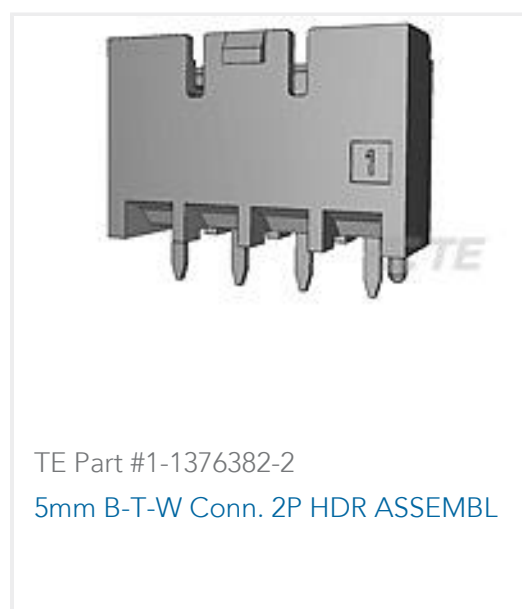
 <p>TE Part # 2-1827392-1 GIC3.3 HDR ASSY 6POS 2ROW BLUE</p>	 <p>TE Part # 5-1827392-1 GIC 3.3 HDR ASSY 6P</p>	 <p>TE Part # 1-1971906-5 HEADER ASSY 10POS,KEYING-A, NEW GIC3.3</p>	 <p>TE Part # 2-1827393-3 GIC 3.3 HDR ASSY 8P</p>
 <p>TE Part # 4-1971906-4 HEADER ASSY 8POS,KEYING-D,NEW GIC3.3</p>	 <p>TE Part # 4-1971906-6 HEADER ASSY 12POS,KEYING-D, NEW GIC3.3</p>	 <p>TE Part # 3-1971906-4 HEADER ASSY 8POS,KEYING-C,NEW GIC3.3</p>	 <p>TE Part # 5-1827393-1 GIC 3.3 HDR ASSY 8P</p>



Also in the Series | **GRACE INERTIA 3.3**



Customers Also Bought



Documents

Product Drawings

[GIC 3.3 HDR ASSY 6P](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1827392-1_F.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1827392-1_F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1827392-1_F.3d_stp.zip](#)

English

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

Product Specifications



Application Specification

Japanese

GRACE INERTIA CONNECTOR 3.3 CONTACT

Japanese

Agency Approvals

UL Report

English