

1827393-1 ✓ ACTIVE

### GRACE INERTIA 3.3

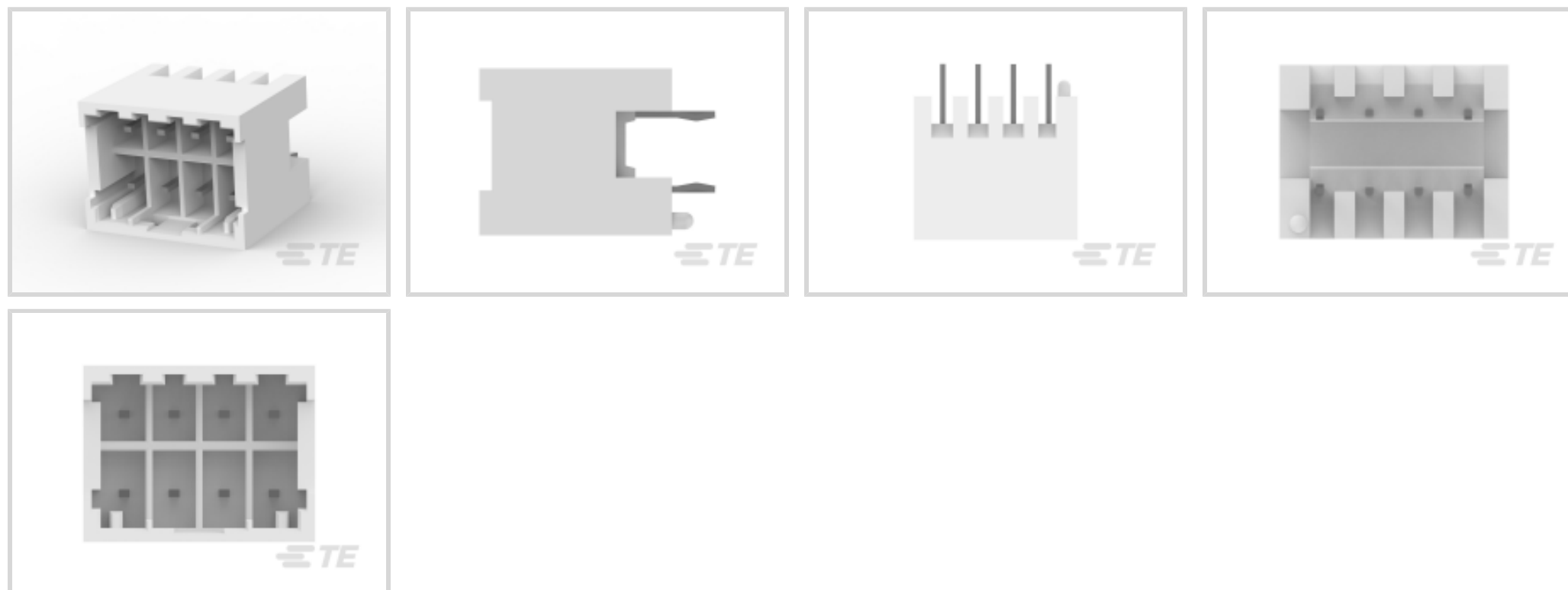
TE Internal #: 1827393-1

PCB Mount Header, Vertical, Wire-to-Board, 8 Position, 3.3 mm [.129 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 3.3

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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: **8**

Number of Rows: **2**

### Features

#### Electrical Characteristics

Operating Voltage	250 VDC
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#### 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	15.3 mm[.602 in]

#### Packaging Features

Packaging Quantity	300
Packaging Method	Tray

#### Industry Standards

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



### Usage Conditions

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

### Body Features

Connector & Keying Code	A
Primary Product Color	Natural

### Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Window
Mating Retention	With
Mating Alignment Type	Keyed
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

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

### Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Mating Area Plating Material Thickness	2 µm[78.74 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	Copper Alloy



Mating Tab Thickness	.5 mm[.02 in]
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material	Tin
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Contact Type	Tab
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Contact Current Rating (Max)	4 A
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### Housing Features

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

Number of Columns	4
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Number of Loaded Positions	8
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Number of Power Positions	8
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Connector Contact Load Condition	Fully Loaded
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PCB Mount Orientation	Vertical
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Number of Positions	8
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Number of Rows	2
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### Product Type Features

Mixed & Hybrid Header	No
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Connector Shape	Rectangular
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PCB Connector Assembly Type	PCB Mount Header
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Connector System	Wire-to-Board
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Header Type	Fully Shrouded
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Sealable	No
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Connector & Contact Terminates To	Printed Circuit Board
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### Operation/Application

Circuit Application	Power
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### Other

EU RoHS Compliance	Compliant
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EU ELV Compliance	Compliant
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### 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 # 2-1827392-1  
GIC3.3 HDR ASSY 6POS 2ROW BLUE



TE Part # 5-1827392-1  
GIC 3.3 HDR ASSY 6P



TE Part # 4-1971906-4  
HEADER ASSY 8POS,KEYING-D,NEW GIC3.3



TE Part # 2-1827393-3  
GIC 3.3 HDR ASSY 8P



TE Part # 2-1939983-3  
GIC 3.3 HDR ASSY 10P 2ROW BLUE



TE Part # 1871571-1  
GIC 3.3 HDR ASSY 12POS KINK



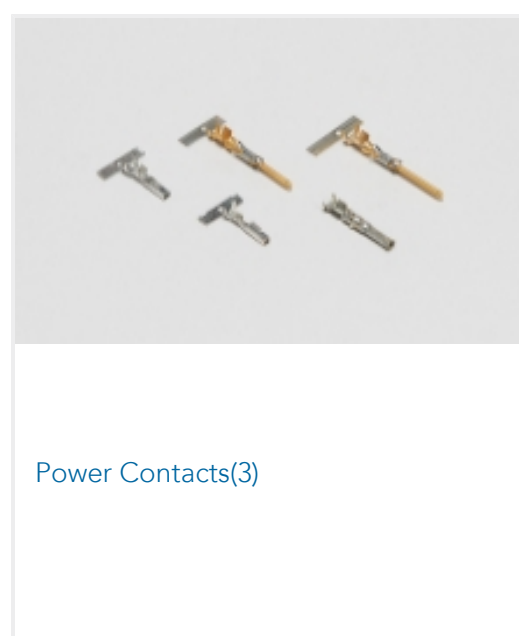
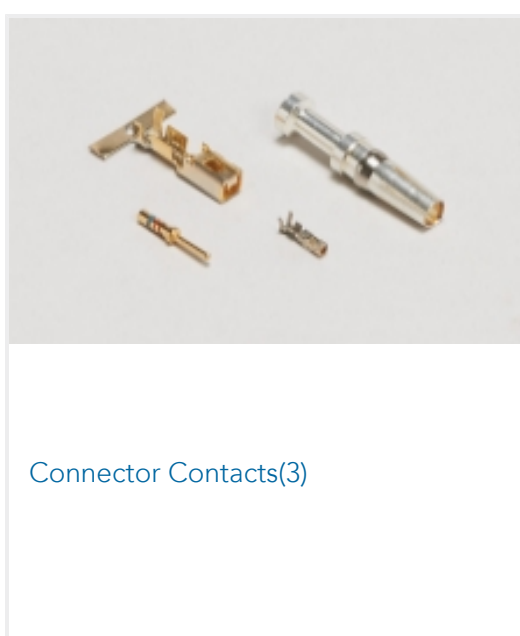
TE Part # 2-1827391-1  
GIC 3.3 HDR ASSY BLUE WITH KINK



TE Part # CAT-G7534-T669  
GRACE INERTIA TPA



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



Customers Also Bought



TE Part #2-1871570-3  
GIC 3.3 PLUG HOUSING 12POS



TE Part #5-1376386-1  
5.0 POWER KEY CONNECTOR 4P (2R)



TE Part #7-1376383-3  
5mm B-T-W Conn, HDR HSG BLUE W



TE Part #5-1376387-1  
5.0 POWER KEY CONNECTOR 6P (2R)



TE Part #1747996-1  
GHC EYELET 12.4 2POS HEADER  
ASSY NATURAL



TE Part #9-179844-1  
POWER D/LOCK HDR ASSY 2P /7.92



TE Part #5-917698-1  
2.5 SIGNAL DBL LOCK D.L.P 2P



TE Part #7-1376387-3  
5.0 POWER KEY CONN.6P HDR ASSY



TE Part #1747995-4  
GHC EYELET 6.2 3POS PLUG  
HOUSING YELLOW



TE Part #5-1565088-1  
GRACE INERTIA CONNECTOR 3.5W  
6POS CAP

## Documents

### Product Drawings

[GIC 3.3 HDR ASSY 8P](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1827393-1\\_G.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1827393-1\\_G.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1827393-1\\_G.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

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### Agency Approvals

UL Report

English