Grace Inertia | GRACE INERTIA 2.5

TE Internal #: 1747067-5

GRACE INERTIA 2.5, PCB Mount Header, Vertical, Wire-to-Board, 5 Position, 2.5mm [.098in] Centerline, 1 Row, Gold, Natural Housing

Color

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PCB Connector Assembly Type: PCB Mount Header

PCB Mount Orientation: Vertical
Connector System: Wire-to-Board

Number of Positions: 5

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	5
Number of Rows	1

Electrical Characteristics

Operating Voltage	50 VAC	

Contact Features

Contact Layout	Matrix
Contact Retention Within Housing	Without



PCB Contact Termination Area Plating Material Thickness 2 μm[78.74 μin] Mating Tab Width7 mm[.028 in] Mating Tab Thickness5 mm[.02 in] Contact Underplating Material Thickness1.27 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 Thickness3 μm[11.81 μin] Contact Type Tab Contact Current Rating (Max) 3 A Termination Features Square Termination Post & Tail Longth 3 mm[.02 in] Termination Post & Tail Longth 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 Mating Retention With PCB Mount Retention Type Board Mount		
Mating Tab Thickness	PCB Contact Termination Area Plating Material Thickness	2 μm[78.74 μin]
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 Alignment Mating Retention With Mating Retention With	Mating Tab Width	.7 mm[.028 in]
PCB Contact Termination Area Plating Material Finish Contact Underplating Material PCB Contact Termination Area Plating Material PCB Contact Termination Area Plating Material Tin Contact Base Material Brass Contact Mating Area Plating Material Contact Mating Area Plating Material Thickness .3 .3 .3 .3 .3 .3 .3 .	Mating Tab Thickness	.5 mm[.02 in]
Contact Underplating Material PCB Contact Termination Area Plating Material Tin Contact Base Material Brass Contact Mating Area Plating Material Contact Mating Area Plating Material 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 Alignment With Mating Retention With PCB Mount Retention With	Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Contact Base Material Brass Contact Mating Area Plating Material Contact Mating Area Plating Material Thickness Contact Type Tab Contact Type Tab Contact Current Rating (Max) 3 A Termination Features Square Termination Post & Tail Dimension Termination Post & Tail Length Termination Method to Printed Circuit Board Mechanical Attachment PCB Mount Alignment Type Boss Strain Relief Without PCB Mount Alignment With Mating Retention With PCB Mount Retention With	PCB Contact Termination Area Plating Material Finish	Matte
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 Mating Retention With	Contact Underplating Material	Nickel
Contact Mating Area Plating Material Contact Mating Area Plating Material Thickness .3 .3 .3 .3 .3 .3 .3 .3	PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness3 µm[11.81 µin] Contact Type Tab Contact Current Rating (Max) 3 A Termination Features Square Termination Post & Tail Dimension5 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	Contact Base Material	Brass
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	Contact Mating Area Plating Material	Gold
Contact Current Rating (Max) Termination Features Square Termination Post & Tail Dimension Termination Post & Tail Length Termination Method to Printed Circuit Board 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	Contact Mating Area Plating Material Thickness	.3 μm[11.81 μin]
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	Contact Type	Tab
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	Contact Current Rating (Max)	3 A
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	ermination Features	
Termination Method to Printed Circuit Board 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	Square Termination Post & Tail Dimension	.5 mm[.02 in]
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	Termination Post & Tail Length	3 mm[.118 in]
PCB Mount Alignment Type Strain Relief Without PCB Mount Retention Type Kinked PCB Mount Alignment With Mating Retention With PCB Mount Retention With	Termination Method to Printed Circuit Board	Through Hole - Solder
Strain Relief Without PCB Mount Retention Type Kinked PCB Mount Alignment With Mating Retention With PCB Mount Retention With	Mechanical Attachment	
PCB Mount Retention Type PCB Mount Alignment With Mating Retention With PCB Mount Retention With	PCB Mount Alignment Type	Boss
PCB Mount Alignment With Mating Retention With PCB Mount Retention With	Strain Relief	Without
Mating Retention PCB Mount Retention With With	PCB Mount Retention Type	Kinked
PCB Mount Retention With	PCB Mount Alignment	With
	Mating Retention	With
Connector Mounting Type Board Mount	PCB Mount Retention	With
	Connector Mounting Type	Board Mount
Housing Features	lousing Features	
Centerline (Pitch) 2.5 mm[.098 in]	Centerline (Pitch)	2.5 mm[.098 in]
Housing Color Natural	Housing Color	Natural
Housing Material 6/6 Nylon GF	Housing Material	6/6 Nylon GF
Dimensions	Dimensions	
Connector Length 15 mm[.59 in]	Connector Length	15 mm[.59 in]
Connector Height 11.3 mm[.444 in]	Connector Height	11.3 mm[.444 in]
Connector Width 6.8 mm[.26 in]	Connector Width	6.8 mm[.26 in]



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

Operating Tomporature Pange	-30 - 105 °C[-22 - 221 °F]
Operating Temperature Range	-30 - 103 C[-ZZ - ZZ I F]

Operation/Application

Circuit Application	Signal	

Industry Standards

UL Flammability Rating	UL 94V-0
Agency/Standard	UL

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



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



TE Part # 1827738-1 GIC 2.5 HDR ASSY SPECIAL 3/5P



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



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



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



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

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Connector Contacts(2)



PCB Latches, Locks & Retainers(5)



Rectangular Connector Housings(49)



Rectangular Connector Locking(2)



Rectangular Power Connectors(36)



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Wire-to-Board Connector Contacts(4)



Wire-to-Board Headers & Receptacles (138)



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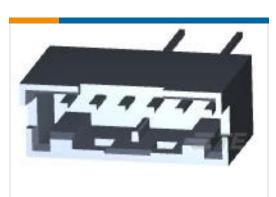












TE Part #7-1747072-6

GRACE INERTIA CONN 2.5 ON TAPE

HDR 6P BL



Documents

Product Drawings

GRACE INERTIA CONN 2.5 HDR ASSY 5P NATUR

Japanese

CAD Files

Customer View Model

ENG_CVM_CVM_1747067-5_C.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1747067-5_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1747067-5_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

Product Environmental Compliance

TE Material Declaration

English

GRACE INERTIA 2.5, PCB Mount Header, Vertical, Wire-to-Board, 5 Position, 2.5mm [. 098in] Centerline, 1 Row, Gold, Natural Housing Color



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