



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Wire-to-Board**

Number of Positions: **12**

Number of Rows: **1**

Features

Product Type Features

PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Partially Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	12
Number of Rows	1

Electrical Characteristics

Operating Voltage	250 VDC
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Body Features

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Connector Profile	Low
Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1 µm[39.37 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	3 µm[118.11 µin]
Mating Square Post Dimension	1.14 mm[.045 in]
PCB Contact Termination Area Plating Material Thickness	3 µm[118.11 µin]
Contact Shape & Form	Square
Contact Layout	Inline
Contact Mating Area Length	7.8 mm[.307 in]
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Pin
Contact Current Rating (Max)	8 A

Termination Features

Termination Post & Tail Length	3.7 mm[.146 in]
Square Termination Post & Tail Dimension	1.14 mm[.045 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Latch
Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Housing Material	Nylon
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Centerline (Pitch)	3.96 mm[.156 in]
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Dimensions

Connector Width	8.6 mm[.339 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	10.9 mm[.429 in]
	1.87 in

Usage Conditions

Operating Temperature Range	-25 – 105 °C[-13 – 221 °F]
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Operation/Application

Circuit Application	Power
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Industry Standards

Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	500
Packaging Method	Package

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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 # 5-2421885-2 EP II PLUG HOUSING, 12P, GREEN, NON-GWT	TE Part # 1-2421886-2 EP II PLUG HOUSING, 12P, GREY, NON-GWT	TE Part # 4-1744057-5 3.96 EP HDR ASSY 5P W/PEGS,YEL	TE Part # 1-1744416-2 12 POS EP II HSG, GLOW WIRE
TE Part # 3-2421886-2 EP II PLUG HOUSING, 12P, ORANGE, NON-GWT	TE Part # 5-2421886-2 EP II PLUG HOUSING, 12P, BLACK, NON-GWT	TE Part # 1-2421885-2 EP II PLUG HOUSING, 12P, RED, NON-GWT	TE Part # 1-2132782-2 12 pos. EP II breakaway retain
TE Part # 1-2377130-2 EP II plug housing, 12P, NON-GWT	TE Part # 7-2421885-2 EP II PLUG HOUSING, 12P, YELLOW, NON-GWT	TE Part # 3-2421885-2 EP II PLUG HOUSING, 12P, BLUE, NON-GWT	

Also in the Series | Economy Power



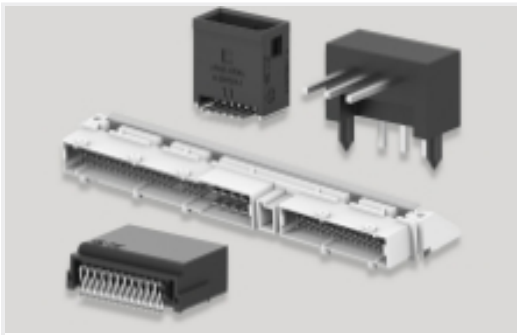
Connector Contacts(15)



Connector Hardware(2)



Insertion & Extraction Tools(1)



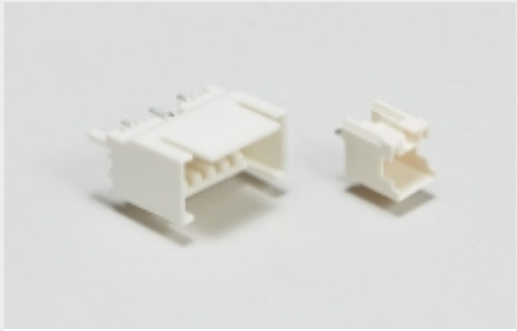
PCB Headers & Receptacles(402)



Power Contacts(9)

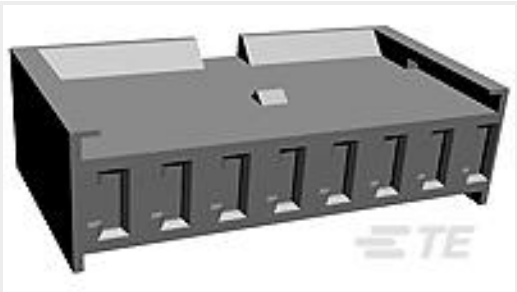


Rectangular Power Connectors(460)



Wire-to-Board Headers & Receptacles (402)

Customers Also Bought



TE Part #280593
AMP MODU MOD I RECEPT HSG



TE Part #1-1318300-0
3.96 EP HDR ASSY 10P NAT/TUBE



TE Part #1-2132781-0
10P EP-II HOUSING, NATURAL



TE Part #710027-1
XCT 35-6



TE Part #42214-2
250 FASTON TAB TPBR



TE Part #292227-2
1.5 MINI CT SGL H SMT W BOSS 2



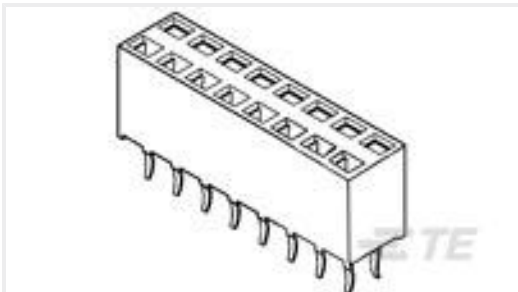
TE Part #5-1462037-9
IM43GR=IM RELAY 100mW 5V BIS



TE Part #1-2132781-2
12P EP-II HOUSING, NATURAL



TE Part #1-640445-2
12P MTA156 HDR ASSY FL/STR SN



TE Part #215307-3
2X3P HV100 REC CON. TE, 7.0MM

Documents



CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-647689-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-647689-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-647689-2_A.3d_stp.zip

English

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

Datasheets & Catalog Pages

1-1773885-9 Economy Power Connectors

English

Product Specifications

Application Specification

Japanese

Application Specification

English

Agency Approvals

VDE Certificate

English