



Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Wire-to-Board**
Number of Positions: **12**
Number of Rows: **1**
Centerline (Pitch): **3.96 mm [.156 in]**
PCB Mount Orientation: **Right Angle**

Features

Product Type Features

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

Configuration Features

Number of Power Positions	12
Number of Loaded Positions	12
Number of Positions	12
Number of Rows	1
PCB Mount Orientation	Right Angle

Electrical Characteristics

Operating Voltage	250 VAC
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Body Features

Primary Product Color	Natural
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Contact Features

Contact Mating Area Length	8.6 mm[.339 in]
Contact Size	1.14mm
PCB Contact Termination Area Plating Material Thickness	2 µm[80 µin]
Contact Layout	Inline
Contact Mating Area Plating Material Thickness	2 µm[80 µin]
Contact Shape & Form	Square
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	8 A

Termination Features

Square Termination Post & Tail Dimension	1.14 mm[.045 in]
Termination Post & Tail Length	3.6 mm[.141 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Retention	With
Mating Retention Type	Locking Tab
Connector Mounting Type	Board Mount
Mating Alignment	Without
PCB Mount Alignment	Without
PCB Mount Retention	Without

Housing Features

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

Dimensions

Connector Length	47.52 mm[1.87 in]
Connector Height	8.21 mm[.323 in]
Connector Width	9.4 mm[.37 in]



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

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

Operation/Application

Shielded	No
Circuit Application	Power

Industry Standards

UL Rating	Recognized
Glow Wire Rating	GWT 750°C (Without Flame)
Compatible With Agency/Standards Products	UL
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	500
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: 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 # 1-2132782-2
12 pos. EP II breakaway retain

TE Part # 1-1744416-2
12 POS EP II HSG, GLOW WIRE

TE Part # 3-1744525-9
3.96 EP HDR ASSY 9P R/A, NO 6,8 PINS

Also in the Series | Economy Power

Connector Contacts(15)

Connector Hardware(2)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(400)

Rectangular Connector Housings(1)

Rectangular Power Connectors(64)

Wire-to-Board Connector Assemblies & Housings(142)

Customers Also Bought

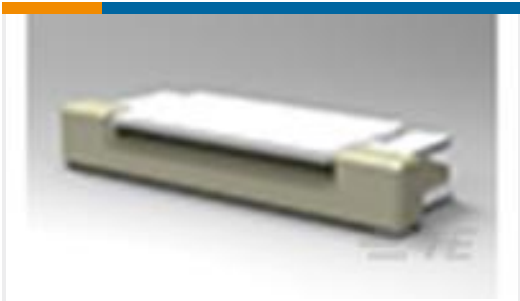
TE Part #640456-7
PCB Header: Polyester, Vertical, Unshrouded, No Mating Alignment

TE Part #1-2199298-5
18P,DIP SKT,300 CL,LDR,PB FREE

TE Part #2199230-4
M.2 0.5PITCH 4.2H KEY E 15U" AU

TE Part #5555163-1
MJ,LPF,R/A,6P/6C,PNL STOPS,BU





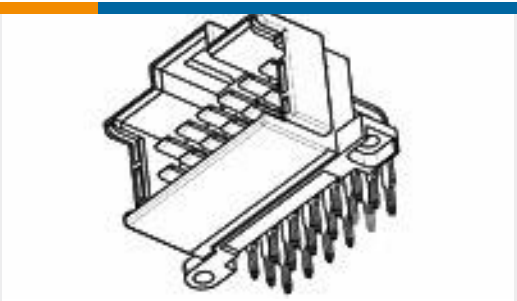
TE Part #5-1734839-0
FPC CONN. 0.5MM PITCH T/C,50P



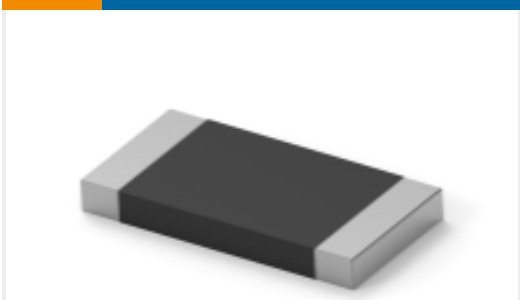
TE Part #90391-3
DIES ULTRA-FAST FASTON 16-14 DIE SET



TE Part #4-2176364-7
RQ 0402 14K 0.1% 10PPM 5K RL



TE Part #9-966140-1
MESSERLEISTE 18P



TE Part #8-2176422-9
TLRP 2512 3.0W R040 1% 75PPM 4K RL

Documents

Product Drawings
3.96 EP HDR ASSY 12P R/A, GW
English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1-1744428-2_E.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_1-1744428-2_E.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_1-1744428-2_E.3d_stp.zip
English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages
Economy Power II (EP II) Glow Wire test compliant connectors
English
1-1773885-9 Economy Power Connectors
English

Product Specifications
Application Specification
Japanese



Application Specification

English

Agency Approvals

VDE Certificate

English