



Economy Power

TE Internal #: 1744427-5

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 5 Position, 3.96 mm [.156 in] Centerline, Printed Circuit Board, UL 94V-2, Economy Power

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors

Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **5**

Centerline (Pitch): **3.96 mm [.156 in]**

**Features**

**Product Type Features**

Header Type	Partially Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

**Configuration Features**

Number of Positions	5
PCB Mount Orientation	Vertical
Number of Power Positions	5
Number of Rows	1

**Electrical Characteristics**

Operating Voltage	600 VAC
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**Contact Features**

PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
Contact Layout	Inline
Contact Mating Area Plating Material	Tin
Contact Base Material	Brass
Contact Current Rating (Max)	8 A
Contact Retention Within Housing	Without



Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	1 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]

#### Termination Features

Termination Post & Tail Length	3.62 mm[.142 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

#### Mechanical Attachment

Strain Relief	Without
Mating Retention	With
PCB Mount Alignment	With
PCB Mount Retention	Without
Connector Mounting Type	Board Mount

#### Housing Features

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

#### Dimensions

Connector Height	12 mm[.472 in]
Product Length	23.05 mm[.9 in]

#### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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#### Operation/Application

Circuit Application	Power
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#### Industry Standards

UL Flammability Rating	UL 94V-2
Glow Wire Rating	GWT 750°C (Without Flame)

#### 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: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 # 2132781-5 05P EP-II HOUSING, NATURAL	TE Part # 1744416-5 5 POS EP II HSG, GLOW WIRE	TE Part # 1744036-5 05P ECONOMY POWER .200 CL HSG	TE Part # 1-1744427-5 EP HEADER ASY,SHROUDED,5 POS, GW,NO PIN2
TE Part # 1744105-2 3.96 EPHDR ASSY 5P OMIT #2 PIN	TE Part # 1744357-5 3.96 EP SHROUDED HDR ASSY 2P W	TE Part # 1744495-5 05P EP-II HOUSING, GREEN	TE Part # 1744544-5 EP II TPA 05P, BLACK

### Also in the Series | Economy Power



Connector Contacts(1)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(162)

PCB Latches, Locks & Retainers(2)

Power Contacts(8)

Rectangular Connector Housings(1)

Rectangular Power Connectors(302)

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

Wire-to-Board Connector Contacts(6)

### Customers Also Bought

TE Part #1-1969688-3  
PTL 1X3 PCB HEADER VERT HITEMP  
KEY A LGR

TE Part #1558660-7  
PCB Power Relay: 30 amp, Monostable  
DC

TE Part #1-1393143-1  
27E128=SOCKET,R10,10,PC,PHEN

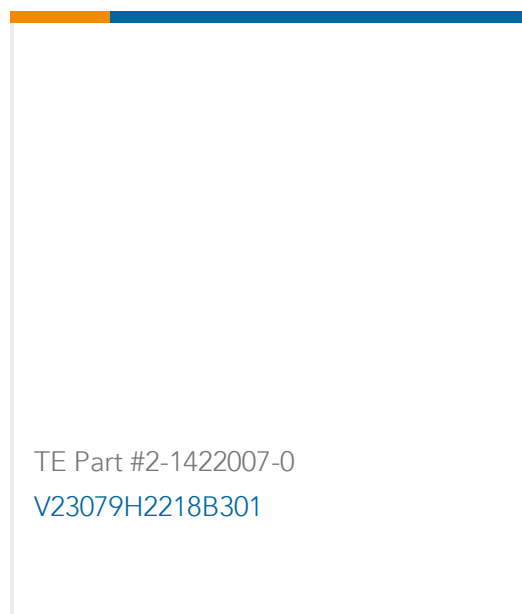
TE Part #63994-1  
FASTON 205/250 PCB MOUNTED  
TPBR

TE Part #2-2106431-2  
Connector, SMT-IDC PASS THRU, 2  
POS, 22

TE Part #1586090-1  
06P UMNL PINHDR NO DRAIN HOLE

TE Part #1-770974-0  
16P MINI UMNL R/A HDR ASSY SN

TE Part #641972-1  
09P UMNL PIN HDR ASSY 94VO



## Documents

### Product Drawings

[EP Header Asy,Shrouded,5 Pos, GW](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1744427-5\\_A.2d\\_dxf.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1744427-5\\_A.3d\\_igs.zip](#)

English

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_1744427-5\\_A.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](#)

English

### Agency Approvals

[UL Report](#)

English