

1-1123723-3 ✓ ACTIVE

Economy Power

TE Internal #: 1-1123723-3

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 3 Position, 3.96 mm [.156 in] Centerline, Printed Circuit Board, UL 94V-0, 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: **3**

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

|                           |            |
|---------------------------|------------|
| Stacking Configuration    | End to End |
| Number of Positions       | 3          |
| PCB Mount Orientation     | Vertical   |
| Number of Power Positions | 3          |
| Number of Rows            | 1          |

#### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VDC |
|-------------------|---------|



### Body Features

|                   |     |
|-------------------|-----|
| Connector Profile | Low |
|-------------------|-----|

### Contact Features

|  |  |
|--|--|
| Contact Layout                                 | Inline   |
| 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           | Tin  |
| Contact Mating Area Plating Material Thickness | 1 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]          |
| Contact Termination Area Plating Thickness     | .8 $\mu\text{m}$ [31.49 – 70.86 $\mu\text{in}$ ] |

### Termination Features

|   |                       |
|---|-----------------------|
| Termination Post & Tail Length              | 3.7 mm[.146 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

### Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Mating Alignment        | With        |
| PCB Mount Alignment     | Without     |
| PCB Mount Retention     | Without     |
| Connector Mounting Type | Board Mount |
| Mating Retention        | With        |
| Mating Retention Type   | Latch       |

### Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 3.96 mm[.156 in] |
| Housing Color      | Natural          |
| Housing Material   | PBT GF           |

### Dimensions

|                             |                   |
|-----------------------------|-------------------|
| PCB Thickness (Recommended) | .06 mm[1.6 in]    |
| Width                       | 10.7 mm[.421 in]  |
| Mating Post Length          | 7.7 mm[.3 in]     |
| Height                      | 8.2 mm[.32 in]    |
| Length                      | 11.82 mm[.465 in] |



### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -25 – 105 °C[-13 – 221 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

### Industry Standards

|                        |                               |
|------------------------|-------------------------------|
| UL Flammability Rating | UL 94V-0                      |
| Glow Wire Rating       | Standard Part - Not Glow Wire |

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Method   | Bag  |
| Packaging Quantity | 1000 |

### Other

|              |              |
|--------------|--------------|
| For Use With | Plug Housing |
|--------------|--------------|

## Product Compliance

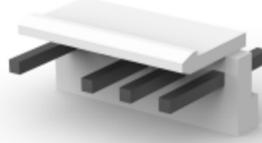
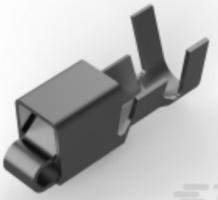
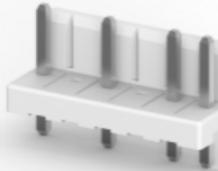
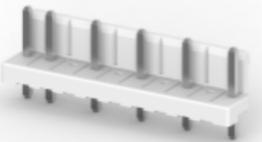
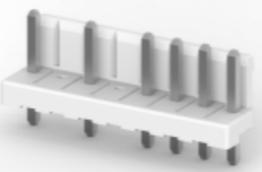
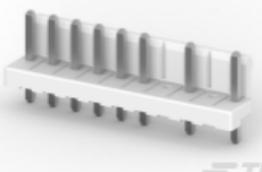
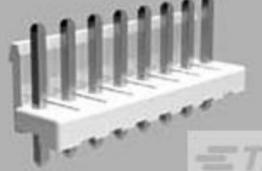
[For compliance documentation, visit the product page on TE.com>](#)

|   |   |
|---|---|
| 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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>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

|   |   |   |  |
|---|---|---|--|
|  <p>TE Part # 1-1123722-3<br/>3.96 EP PLUG HSG 3P(NATURAL)</p>     |  <p>TE Part # 1123721-2<br/>ECONOMY POWER CONN REC CONT</p>              |  <p>TE Part # 1744416-3<br/>3 POS EP II HSG, GLOW WIRE</p>           |  <p>TE Part # 1-1717011-1<br/>EP CONN.HDR ASSY 4/5POS (NATURAL GWT)</p> |
|  <p>TE Part # 1123721-1<br/>EP CONN. REC CONTACT</p>              |  <p>TE Part # 1744544-3<br/>EP II TPA 03P, BLACK</p>                    |  <p>TE Part # 1-2316952-6<br/>3.96 EP HDR ASSY 6P,NO PIN 2,4</p>    |  <p>TE Part # 1-2316952-8<br/>3.96 EP HDR ASSY 8P, NO PIN 2,5,7</p>    |
|  <p>TE Part # 1744493-3<br/>03P EP-II HOUSING, ORANGE</p>        |  <p>TE Part # 2-2316952-0<br/>3.96 EP HDR ASSY 10P, NO PIN 3,5,7,9</p> |  <p>TE Part # 2-2316952-8<br/>3.96 EP HDR ASSY 8P, NO PIN 2,4</p>  |  <p>TE Part # 2316952-4<br/>3.96 EP HDR ASSY 4P, NO PIN 2,3</p>       |
|  <p>TE Part # 2316952-6<br/>3.96 EP HDR ASSY 6P,NO PIN 2,3,5</p> |  <p>TE Part # 2316952-8<br/>3.96 EP HDR ASSY 8P, NO PIN 2,4,6,7</p>    |  <p>TE Part # 3-2316952-0<br/>3.96 EP HDR ASSY 10P, NO PIN 7,9</p> |  <p>TE Part # 7-1123723-1<br/>3.96 EP HDR ASSY 11P(NATURAL GWT)</p>   |
|  <p>TE Part # 7-1123724-2<br/>03P EP HDR HSG V0 GWT NO 02P</p>   |   |   |  |

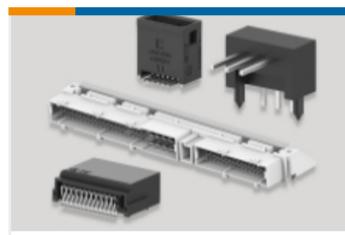
Also in the Series | **Economy Power**



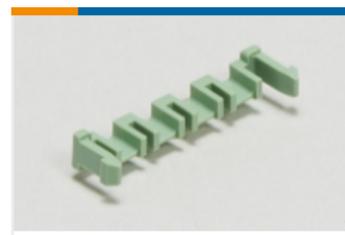
Connector Contacts(1)



Insertion &amp; Extraction Tools(1)



PCB Headers &amp; Receptacles(166)



PCB Latches, Locks &amp; Retainers(2)



Power Contacts(8)



Rectangular Connector Housings(1)



Rectangular Power Connectors(301)



Wire-to-Board Connector Assemblies &amp; Housings(141)



Wire-to-Board Connector Contacts(6)

## Documents

### Product Drawings

[3.96 EP HDR ASSY 3P\(NATURAL\)](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-1123723-3\\_AD\\_c-1-1123723-3-ad.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-1123723-3\\_AD\\_c-1-1123723-3-ad.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-1123723-3\\_AD\\_c-1-1123723-3-ad.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

[1-1773885-9 Economy Power Connectors](#)

English

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### Product Specifications

[Application Specification](#)

English

[Application Specification](#)

Japanese

[Application Specification](#)

English

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### Product Environmental Compliance

[MD\\_1-1123723-3\\_110220172112\\_dmtec](#)

English

[MD\\_1-1123723-3\\_110220172112\\_dmtec](#)

English

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### Instruction Sheets

[Instruction Sheet \(non U.S.\)](#)

Japanese

[Economy Power \(EP\) Connector](#)

Japanese