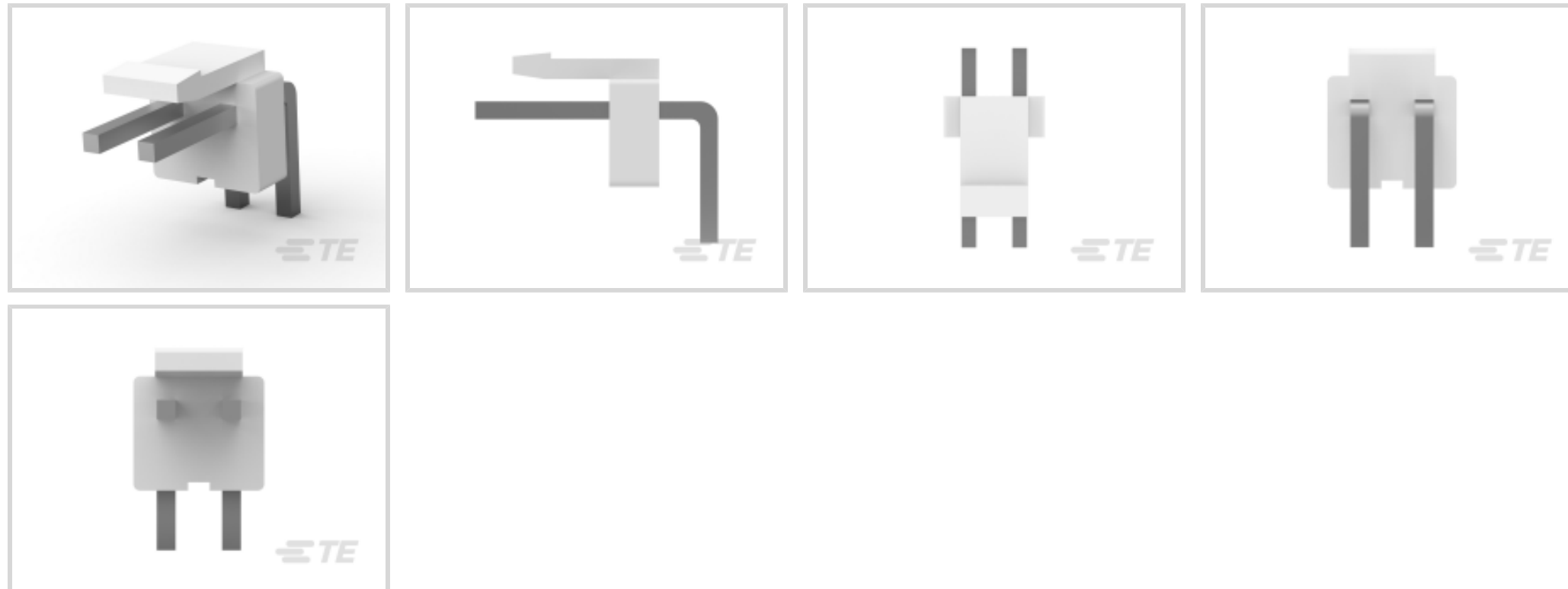


Economy Power

TE Internal #: 647676-2

PCB Mount Header, Right Angle, Wire-to-Board, 2 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Tin (Sn), Economy Power

[View on TE.com >](#)
[Connectors >](#) [PCB Connectors >](#) [PCB Headers & Receptacles](#)
PCB Connector Type: **PCB Mount Header**PCB Mount Orientation: **Right Angle**Connector System: **Wire-to-Board**Number of Positions: **2**Centerline (Pitch): **3.96 mm [.156 in]**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Connector Shape | Rectangular |
| 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

| | |
|----------------------------|-------------|
| Number of Loaded Positions | 2 |
| PCB Mount Orientation | Right Angle |
| Number of Positions | 2 |
| Number of Rows | 1 |
| Number of Power Positions | 2 |

Electrical Characteristics



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

Body Features

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

| | |
|-----------------------|-------|
| Primary Product Color | White |
|-----------------------|-------|

Contact Features

| | |
|--------------|--------|
| Contact Size | 1.14mm |
|--------------|--------|

| | |
|---|--------------|
| PCB Contact Termination Area Plating Material Thickness | 2 µm[80 µin] |
|---|--------------|

| | |
|----------------------|--------|
| Contact Shape & Form | Square |
|----------------------|--------|

| | |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|

| | |
|----------------------------|-----------------|
| Contact Mating Area Length | 8.6 mm[.339 in] |
|----------------------------|-----------------|

| | |
|-----------------------|-------|
| Contact Base Material | Brass |
|-----------------------|-------|

| | |
|--------------------------------------|----------|
| Contact Mating Area Plating Material | Tin (Sn) |
|--------------------------------------|----------|

| | |
|--|--------------|
| Contact Mating Area Plating Material Thickness | 2 µm[80 µin] |
|--|--------------|

| | |
|--------------|-----|
| Contact Type | Tab |
|--------------|-----|

| | |
|------------------------------|-----|
| Contact Current Rating (Max) | 8 A |
|------------------------------|-----|

| | |
|---|-----|
| PCB Contact Termination Area Plating Material | Tin |
|---|-----|

Termination Features

| | |
|--------------------------------|-----------------|
| Termination Post & Tail Length | 3.6 mm[.141 in] |
|--------------------------------|-----------------|

| | |
|--|------------------|
| Square Termination Post & Tail Dimension | 1.14 mm[.045 in] |
|--|------------------|

| | |
|---------------------------|-----------------------|
| Termination Method to PCB | Through Hole - Solder |
|---------------------------|-----------------------|

Mechanical Attachment

| | |
|-----------------------|-------------|
| Mating Retention Type | Locking Tab |
|-----------------------|-------------|

| | |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

| | |
|------------------|------|
| Mating Retention | With |
|------------------|------|

| | |
|---------------------|---------|
| PCB Mount Retention | Without |
|---------------------|---------|

| | |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

| | |
|------------------|---------|
| Mating Alignment | Without |
|------------------|---------|

Housing Features

| | |
|--------------------|------------------|
| Centerline (Pitch) | 3.96 mm[.156 in] |
|--------------------|------------------|

| | |
|------------------|----------|
| Housing Material | Nylon 66 |
|------------------|----------|

Dimensions

| | |
|-----------------|----------------|
| Connector Width | 9.4 mm[.37 in] |
|-----------------|----------------|



| | |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
|-----------------------------|-----------------|

| | |
|------------------|------------------|
| Connector Height | 8.21 mm[.323 in] |
|------------------|------------------|

| | |
|------------------|------------------|
| Connector Length | 7.92 mm[.312 in] |
|------------------|------------------|

Usage Conditions

| | |
|-----------------------------|----------------|
| Operating Temperature (Max) | 105 °C[221 °F] |
|-----------------------------|----------------|

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -30 – 105 °C[-22 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

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

Industry Standards

| | |
|------------------|-------------------------------|
| Glow Wire Rating | Standard Part - Not Glow Wire |
|------------------|-------------------------------|

| | |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

| | |
|--------------------|------|
| Packaging Quantity | 1000 |
|--------------------|------|

| | |
|------------------|-----|
| 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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
|---|---|

| | |
|--|---|
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC |
|--|---|

| | |
|-----------------|--|
| Halogen Content | Low Halogen - Br, Cl, F < 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 # 1744544-2
EP II TPA 02P, BLACK



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




TE Part # 2132813-2
2 pos. EP II housing w/rtnr




TE Part # 1-1123722-2
3.96 EP PLUG HSG 2P(NATURAL)


Also in the Series | Economy Power



Connector Contacts(13)




Connector Hardware(2)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(463)



Power Contacts(7)



Rectangular Power Connectors(547)



Wire-to-Board Headers & Receptacles (463)


Customers Also Bought



TE Part #494375-E
M8 FEMALE, A CODE, 4P, 16.25MM SMT



TE Part #84984-6
1mm FFC DIP V ASSY 6P NAT(TB) SMT



TE Part #120954-1
TE UPM R/A Header 4P HC Power, LLLL



TE Part #350790-1
03P UMNL PIN HDR ASSY 94VO



TE Part #3-794620-6
06P MICRO MNL ASSY,R/A,HDR,LF



TE Part #9-1879140-6
RN 0603 182K 0.1% 10PPM 5K RL



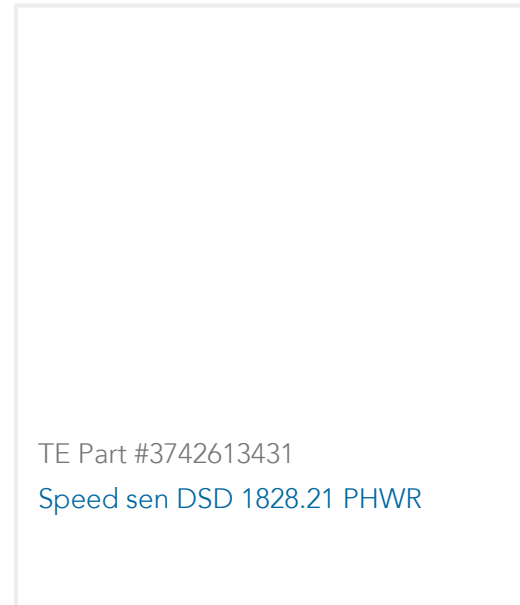
TE Part #6-2176231-3
3522 3K9 1% 3W



TE Part #3-2176370-7
RQ 0603 1K02 0.1% 10PPM 5K RL



TE Part #3-2176372-1
RQ 0603 102K 0.1% 10PPM 5K RL



TE Part #3742613431
Speed sen DSD 1828.21 PHWR

Documents

Product Drawings

[3.96 EP HDR ASSY 2P R/A](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_647676-2_B.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_647676-2_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_647676-2_B.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[7-1773458-5_ECONOMY_POWER_QRG](#)

English

Product Specifications

[Application Specification](#)

Japanese

[Application Specification](#)

English

647676-2

PCB Mount Header, Right Angle, Wire-to-Board, 2 Position, 3.96 mm [.156 in]
Centerline, Partially Shrouded, Tin (Sn), Economy Power



[Agency Approvals](#)

[VDE Certificate](#)

English