



Power Key 5.0

TE Internal #: 2-1376387-3  
PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 5 mm [.197 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, Power, Power Key 5.0

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**  
PCB Mount Orientation: **Vertical**  
Connector System: **Wire-to-Board**  
Number of Positions: **6**  
Number of Rows: **2**

Features

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 300 VAC |
|-------------------|---------|

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Row-to-Row Spacing          | 6.2 mm[.244 in]  |
| Connector Width             | 12.4 mm[.488 in] |
| PCB Thickness (Recommended) | 1.6 mm[.063 in]  |
| Connector Height            | 14.1 mm[.55 in]  |
| Connector Length            | 16.6 mm[.653 in] |

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 100 |
| Packaging Method   | Bag |

Industry Standards

|                                             |            |
|---------------------------------------------|------------|
| Compatible With Agency/Standards Products   | UL, CSA    |
| UL Rating                                   | Recognized |
| Compatible With Approved Standards Products | UL E28476  |



|                        |                           |
|------------------------|---------------------------|
| Glow Wire Rating       | GWT 750°C (Without Flame) |
| UL Flammability Rating | UL 94V-0                  |

Usage Conditions

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

Body Features

|                         |      |
|-------------------------|------|
| Connector & Keying Code | C    |
| Primary Product Color   | Blue |

Mechanical Attachment

|                          |             |
|--------------------------|-------------|
| Mating Retention Type    | Locking Tab |
| Mating Retention         | With        |
| Mating Alignment Type    | Keyed       |
| PCB Mount Retention Type | Kinked Legs |
| PCB Mount Alignment Type | Boss        |
| PCB Mount Retention      | With        |
| PCB Mount Alignment      | With        |
| Connector Mounting Type  | Board Mount |
| Mating Alignment         | With        |

Termination Features

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Rectangular Termination Post & Tail Width     | 1.1 mm[.044 in]       |
| Rectangular Termination Post & Tail Thickness | .5 mm[.02 in]         |
| Termination Post & Tail Length                | 3.5 mm[.138 in]       |
| Termination Method to PCB                     | Through Hole - Solder |

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| Contact Underplating Material Thickness                 | .8 – 3 µm[31.49 – 118.11 µin] |
| Contact Size                                            | 1.5mm, .5mm                   |
| Contact Mating Area Plating Material Thickness          | 1 µm[39.37 µin]               |
| Mating Tab Width                                        | 1.5 mm[.059 in]               |
| Contact Shape & Form                                    | Rectangular                   |
| PCB Contact Termination Area Plating Material Thickness | 1 µm[39.37 µin]               |
| Contact Layout                                          | Matrix                        |



|                                               |               |
|-----------------------------------------------|---------------|
| Contact Base Material                         | Copper Alloy  |
| Mating Tab Thickness                          | .5 mm[.02 in] |
| PCB Contact Termination Area Plating Material | Tin           |
| Contact Mating Area Plating Material          | Tin           |
| Contact Type                                  | Tab           |
| Contact Current Rating (Max)                  | 10 A          |

Housing Features

|                    |               |
|--------------------|---------------|
| Housing Material   | Nylon 6/6 GF  |
| Centerline (Pitch) | 5 mm[.197 in] |

Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Columns          | 3        |
| Number of Loaded Positions | 6        |
| Number of Power Positions  | 6        |
| PCB Mount Orientation      | Vertical |
| Number of Positions        | 6        |
| Number of Rows             | 2        |

Product Type Features

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

Operation/Application

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

Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

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)<br>Candidate List Declared Against: JUNE 2024 (241)<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>

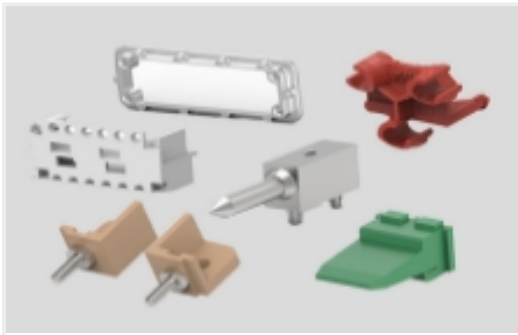
Compatible Parts

|                                                                  |                                                                 |                                                                   |                                                         |
|------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------|
|                                                                  |                                                                 |                                                                   |                                                         |
| TE Part # 1-1376384-5<br>5mm B-T-W Conn. 4P HDR ASSEMBLY (GWT)   | TE Part # 1376387-2<br>5.0 PK CONN. 6P(2ROW) HDR W/O GF-NATURAL | TE Part # 2-1376437-3<br>5MM POWER KEY 2P HDR ASSY BLUE           | TE Part # 2-1376393-3<br>5MM POWER KEY 6P PLUG HSG BLUE |
|                                                                  |                                                                 |                                                                   |                                                         |
| TE Part # 2-1376387-4<br>5.0 PK CONN. 6P(2ROW) HDR W/O GF - BLUE | TE Part # 1-1376387-3<br>5.0 PK CONN. 6P(2ROW) HDR W/O GF - RED | TE Part # 3-1376387-5<br>5.0 PK CONN. 6P(2ROW) HDR W/O GF- YELLOW |                                                         |

Also in the Series | Power Key 5.0



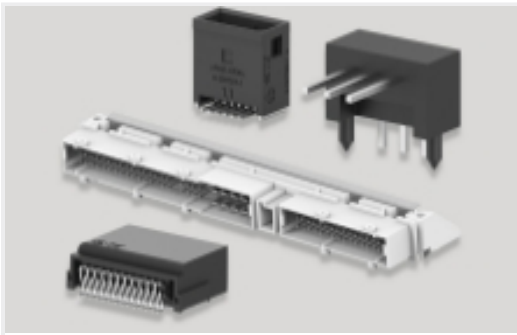
Connector Contacts(4)



Connector Hardware(4)



Insertion & Extraction Tools(1)



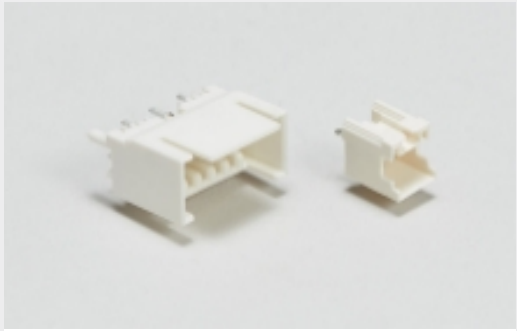
PCB Headers & Receptacles(88)



Power Contacts(4)



Rectangular Power Connectors(51)



Wire-to-Board Headers & Receptacles (88)

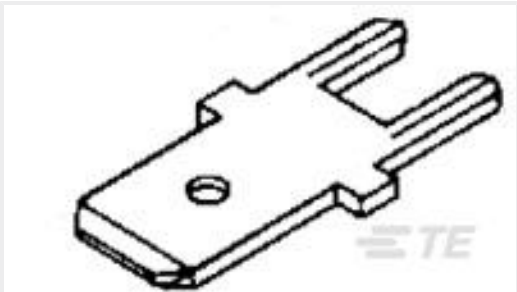
Customers Also Bought



TE Part #1-2176070-9  
3521 56R 1% 2W



TE Part #1376386-1  
5mm B-T-W Conn. 4P(2row) HDR A



TE Part #726386-2  
250 FASTON TAB TPBR



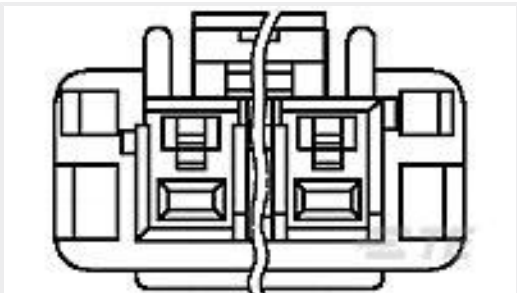
TE Part #4-1393224-6  
RY211012



TE Part #3-794630-6  
06P MICRO MNL ASSY VRT HDR LF



TE Part #1969730-6  
EP2.5 SHROUDED HDR ASSY 6P VERTICAL



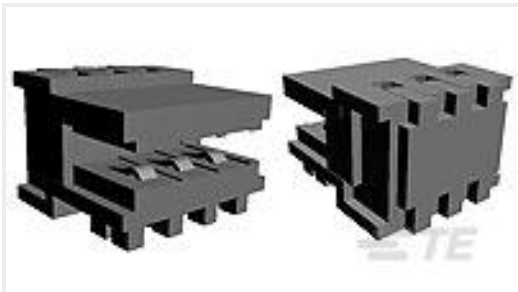
TE Part #2-1376393-3  
5MM POWER KEY 6P PLUG HSG BLUE



TE Part #178497-1  
UNIV. POWER HDR H 4P 3.96MM NA



TE Part #178499-1  
UP 3.96 6P TAB HDR NATL TYPE 1



TE Part #3-829868-8  
DUOPLUG 2.5 FEDERLEI 8P

Documents



Product Drawings

5mm B-T-W Conn. 6P(2row) HDR A

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_2-1376387-3\_F.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-1376387-3\_F.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-1376387-3\_F.3d\_stp.zip

English

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

Datasheets & Catalog Pages

SOFT\_SHELL\_PIN\_SOCKET\_CONNECTORS\_STANDARD\_DENSITY

English

1-1773881-9 Power Key Connector Quick Reference Guide

English

Product Specifications

Application Specification

English

Agency Approvals

VDE Certificate

English

VDE Certificate

English