

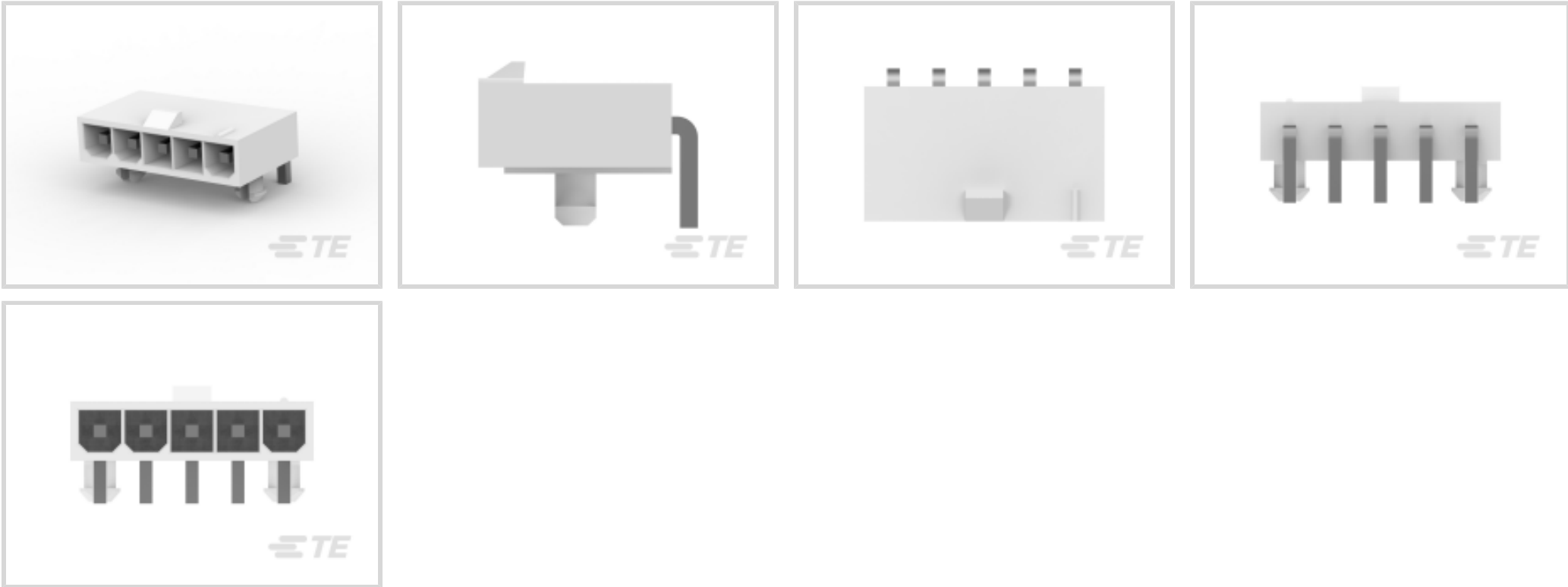


VAL-U-LOK

TE Internal #: 2029150-5  
Header, Plug, Wire-to-Board, 5 Position, 4.2 mm [.165 in]  
Centerline, Printed Circuit Board, UL 94V-2, Rectangular Power  
Connectors

[View on TE.com >](#)

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): **4.2 mm [ .165 in ]**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| 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      | Right Angle |
| Number of Power Positions  | 5           |
| Number of Signal Positions | 0           |
| Number of Rows             | 1           |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VAC |
|-------------------|---------|

Contact Features



|                                               |         |
|-----------------------------------------------|---------|
| Contact Layout                                | Inline  |
| Contact Mating Area Plating Material          | Tin     |
| Contact Current Rating (Max)                  | 9 A     |
| Contact Retention Within Housing              | Without |
| Contact Type                                  | Pin     |
| PCB Contact Termination Area Plating Material | Tin     |

Termination Features

|                                |                       |
|--------------------------------|-----------------------|
| Termination Post & Tail Length | 3.5 mm[.138 in]       |
| Termination Method to PCB      | Through Hole - Solder |

Mechanical Attachment

|                          |             |
|--------------------------|-------------|
| Mating Alignment Type    | Keyed       |
| Mating Retention         | With        |
| Mating Alignment         | With        |
| PCB Mount Alignment      | With        |
| PCB Mount Retention      | With        |
| PCB Mount Retention Type | Boardlock   |
| Mating Retention Type    | Latch       |
| Connector Mounting Type  | Board Mount |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 4.2 mm[.165 in] |
| Housing Color      | Natural         |
| Housing Material   | Nylon           |

Dimensions

|                                      |                              |
|--------------------------------------|------------------------------|
| Compatible Insulation Diameter (Max) | 2.39 mm[2.39 in]             |
| Connector Height                     | 5.4 mm[.213 in]              |
| PCB Thickness (Recommended)          | .07 mm[1.78 in]              |
| Product Width                        | 12.45 mm[.49 in]             |
| Product Length                       | 22.2 mm[.874 in]             |
| Compatible Insulation Diameter Range | 1.2 – 3.1 mm[.047 – .122 in] |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application



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

Identification Marking

|                                |      |
|--------------------------------|------|
| Circuit Identification Feature | With |
|--------------------------------|------|

Industry Standards

|                                             |                               |
|---------------------------------------------|-------------------------------|
| CSA Rating                                  | 208567                        |
| UL Rating                                   | Recognized                    |
| Compatible With Agency/Standards Products   | CSA, UL                       |
| Compatible With Approved Standards Products | UL E28476                     |
| UL Flammability Rating                      | UL 94V-2                      |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |

Packaging Features

|                    |                 |
|--------------------|-----------------|
| Packaging Quantity | 500             |
| Packaging Method   | Bag, Box & Tray |

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                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                             |
| Solder Process Capability                     | Wave solder capable to 240°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

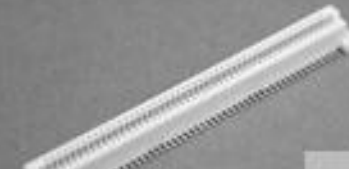


TE Part # 1586024-5  
5P S/R FH PLUG VAL-U-LOK V2



TE Part # 1586022-5  
5P S/R PM PLUG VAL-U-LOK V2

Customers Also Bought



TE Part #1735482-1  
0.8FH,R17H.5,040,08/Sn,TR,SC



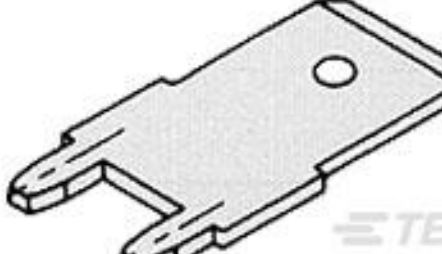
TE Part #5-1393144-7  
K10P-11D15-24=K10/K20



TE Part #1816124-1  
PT17024



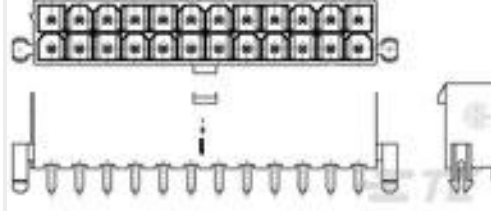
TE Part #5-103904-3  
4 MTE HDR SRRA LATCH W/HLDWN



TE Part #62409-1  
250 FASTON TAB TPBR



TE Part #1-104480-3  
SHORT POINT CONT 30 DPLX STMPD LF



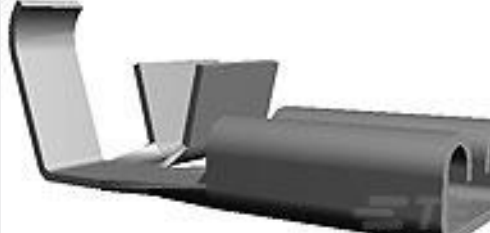
TE Part #1586040-4  
4P VAL-U-LOK VRT HDR W/P V0



TE Part #1658622-1  
10 NOVO MIL/CTR 30DP,LEAD FREE



TE Part #60295-1  
FASTIN FASTON 250 REC 22-18 AWG BR



TE Part #60605-1  
110 FASTON FLAG REC 22-18 AWG TPBR

Documents

Product Drawings  
5P R/A HDR VAL-U-LOK V2 W/P  
English



CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2029150-5\_A\_c-2029150-5-a.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2029150-5\_A\_c-2029150-5-a.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2029150-5\_A\_c-2029150-5-a.3d\_stp.zip

English

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

Datasheets & Catalog Pages

VAL-U-LOK\_SINGLE\_ROW\_HEADERS

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English