# 1-1586040-6 ✔ ACTIVE

VAL-U-LOK

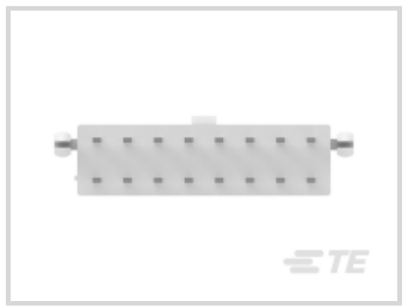
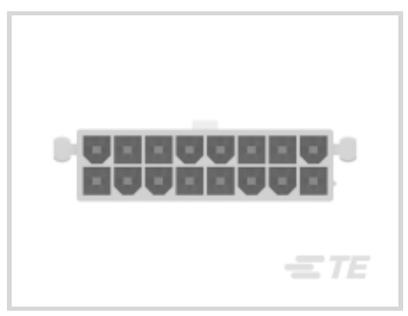
TE Internal #: 1-1586040-6

PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 4.2 mm [.165 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, Power, Natural, Tray

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

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

Number of Positions: **16**

Number of Rows: **2**

Centerline (Pitch): **4.2 mm [ .165 in ]**

## Features

### 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 |

### Configuration Features

| | |
|---|---|
| Number of Power Positions | 16 |
| Number of Loaded Positions | 16 |
| Number of Positions | 16 |
| Number of Rows | 2 |
| PCB Mount Orientation | Vertical |

### Electrical Characteristics

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

## Body Features

| | |
|---|---|
| Primary Product Color | Natural |

## Contact Features

| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 2.03 µm[80 µin] |
| Contact Layout | Matrix |
| Contact Underplating Material Thickness | .381 µm[15 µin] |
| Contact Mating Area Plating Material Thickness | 2.03 µm[80 µin] |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Brass Alloy |
| Contact Mating Area Plating Material | Tin |
| Contact Type | Tab |
| Contact Current Rating (Max) | 9 A |

## 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 |
| PCB Mount Retention Type | Boardlock |
| Mating Retention Type | Locking Tab |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |
| PCB Mount Alignment | Without |
| PCB Mount Retention | With |

## Housing Features

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

## Dimensions

| | |
|---|---|
| Connector Length | 34.8 mm[1.37 in] |
| Connector Height | 12.8 mm[.504 in] |
| Connector Width | 9.75 mm[.384 in] |

| | |
|---|---|
| PCB Thickness (Recommended) | 1.78 mm[.07 in] |
| Row-to-Row Spacing | 4.2 mm[.165 in] |

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

| | |
|---|---|
| UL Rating | Recognized |
| Glow Wire Rating | Standard Part - Not Glow Wire |
| Compatible With Agency/Standards Products | CSA, UL |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating | UL 94V-0 |

### Packaging Features

| | |
|---|---|
| Packaging Quantity | 135 |
| Packaging Method | Tray |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

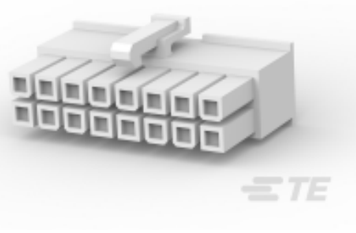
| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Out of Scope |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUL 2021 (219)<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 265°C |

Product Compliance Disclaimer

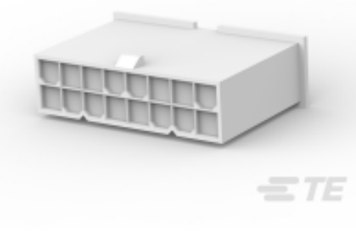
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 1-1586019-6
16P RCPT VAL-U-LOK V0



TE Part # 1-1969612-6
16P FH PLUG VAL-U-LOK V0

## Customers Also Bought



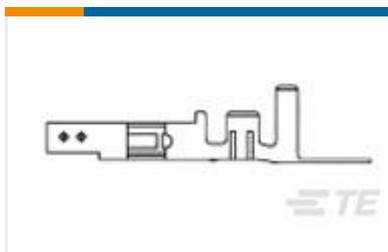

TE Part #2-1879378-3
TLR 2512 3.0W R0015 1% 50PPM 2K RL



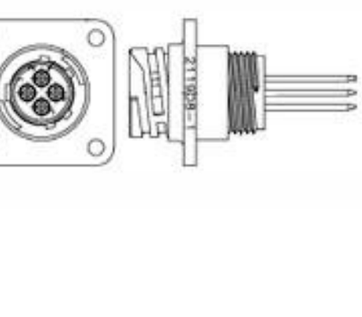
TE Part #280372-2
6P AMPMODU II SHRD HDR, ST, 0.38 AU



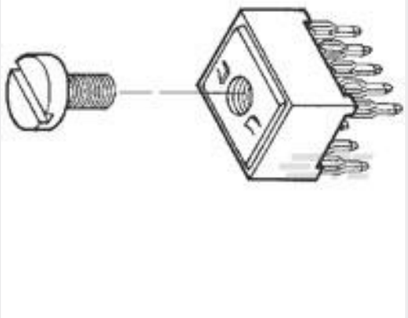
TE Part #825433-2
MOD 2 PINHDR 1X2 P.



TE Part #794958-2
VAL-U-LOK SKT BR AU 22-26AWG



TE Part #1-788130-1
CPC RCPT,PSTD,SZ 11-4 LF



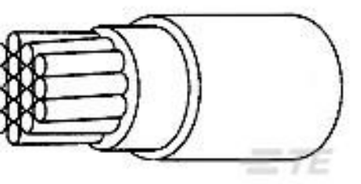
TE Part #9-55556-0
10 POWER TAP ASSY WITH SCREW #6-32



TE Part #280380-2
8P MODU II SHRD HDR,RT ANG, 0.38 AU



TE Part #5-87623-4
MOD II POST PLTD 15 DPLX, ROHS



TE Part #7132913001
99M0111-20-0

## Documents

## Product Drawings

16P VAL-U-LOK VRT HDR W/P V0

English

## CAD Files

3D PDF

3D

### Customer View Model

ENG_CVM_CVM_1-1586040-6_B8.2d_dxf.zip

English

### Customer View Model

ENG_CVM_CVM_1-1586040-6_B8.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_1-1586040-6_B8.3d_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_AND_SOCKET_CONNECTORS_CATALOG

English

## Product Specifications

Application Specification

English

## Instruction Sheets

Instruction Sheet (U.S.)

English

## Agency Approvals

UL Report

English