



**VAL-U-LOK**

TE Internal #: 1-1586586-6

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



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

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

PCB Mount Orientation: **Vertical**

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

**Features**

**Other**

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

**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 Loaded Positions	16
Number of Power Positions	16
PCB Mount Orientation	Vertical
Number of Positions	16



Number of Rows	2
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### Electrical Characteristics

Operating Voltage	600 VAC
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### Body Features

Primary Product Color	Natural
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### Contact Features

Contact Underplating Material	Nickel
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Contact Underplating Material Thickness	.5 $\mu\text{m}$ [20 $\mu\text{in}$ ]
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Contact Size	1.14mm, 1.08mm
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Contact Mating Area Plating Material Thickness	1 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]
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PCB Contact Termination Area Plating Material Thickness	1 $\mu\text{m}$ [39.37 $\mu\text{in}$ ]
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Contact Shape & Form	Rectangular
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Contact Layout	Matrix
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Contact Base Material	Brass Alloy
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material	Tin
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Contact Type	Tab
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Contact Current Rating (Max)	9 A
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### Termination Features

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

Mating Retention Type	Locking Tab
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Mating Retention	With
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Mating Alignment Type	Blindmate
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PCB Mount Retention Type	Boardlock
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PCB Mount Alignment Type	Boardlock
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PCB Mount Retention	With
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PCB Mount Alignment	With
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Connector Mounting Type	Board Mount
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Mating Alignment	With
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### Housing Features



Housing Material	Nylon
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Centerline (Pitch)	4.2 mm [.165 in]
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### Dimensions

Row-to-Row Spacing	4.2 mm [.165 in]
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Connector Width	15 mm [.59 in]
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PCB Thickness (Recommended)	1.78 mm [.07 in]
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Connector Height	14.1 mm [.555 in]
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Connector Length	40.2 mm [1.58 in]
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### Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
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Operating Temperature Range	-40 – 105 °C [-40 – 221 °F]
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### Operation/Application

Circuit Application	Power
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### Industry Standards

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

Packaging Quantity	90
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Packaging Method	Tray
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### Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per
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homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

Wave solder capable to 265°C

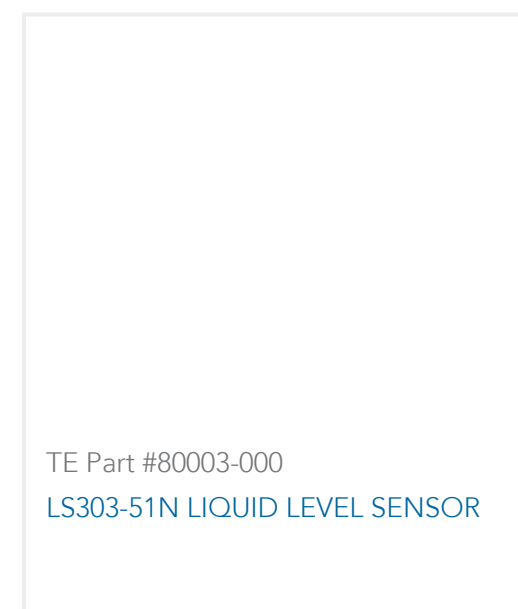
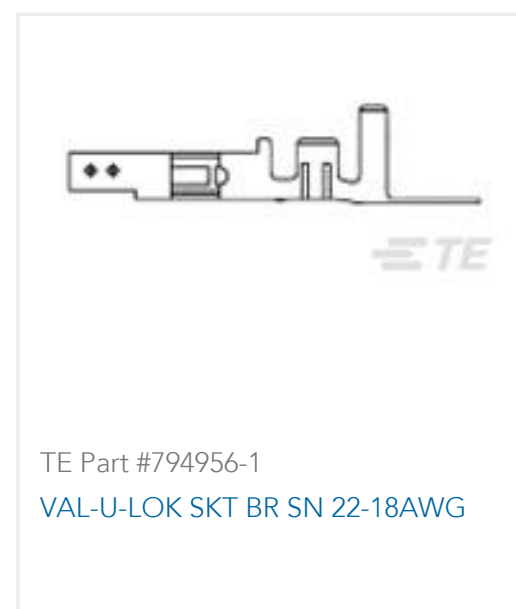
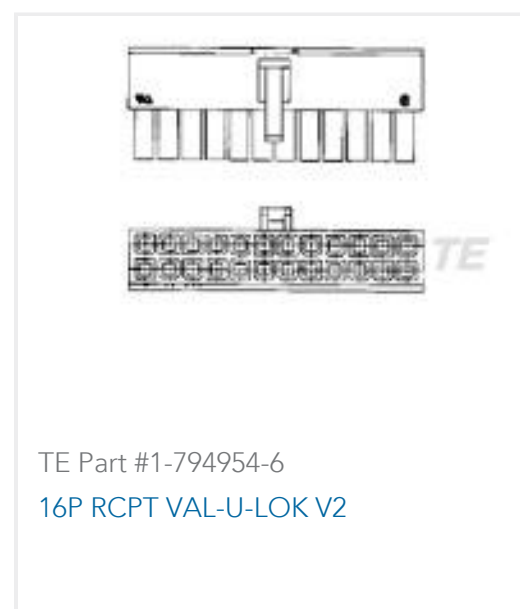
#### Product Compliance Disclaimer

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



## Customers Also Bought



## Documents

### Product Drawings

[16P VAL-U-LOK BMI VRT HDR V2](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_1-1586586-6\\_A1.3d\\_igs.zip](#)

English



**Customer View Model**

[ENG\\_CVM\\_1-1586586-6\\_A1.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_1-1586586-6\\_A1.2d\\_dxf.zip](#)

English

[3D PDF](#)

English

[3D PDF](#)

3D

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-1586586-6\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-1586586-6\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-1586586-6\\_A.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

English

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**Product Specifications**

[Application Specification](#)

English

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**Agency Approvals**

[UL Report](#)

English