

### VAL-U-LOK

TE Internal #: 1586039-6

PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 4.2 mm [. 165 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder,

Power, Natural, Tray

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#### Connectors > PCB Connectors > PCB Headers & Receptacles











PCB Connector Assembly Type: PCB Mount Header

Connector System: Wire-to-Board

Number of Positions: 6
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	6
Number of Loaded Positions	6
Number of Positions	6
Number of Rows	2
PCB Mount Orientation	Vertical
Electrical Characteristics	

600 VAC

Operating Voltage



## **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	.762 μm[30 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	PA 66
Centerline (Pitch)	4.2 mm[.165 in]
Dimensions	
Connector Length	13.8 mm[.543 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-2
of Hammabiney Hading	
Packaging Features	OL 74 V Z

# **Product Compliance**

Packaging Method

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) Candidate List Declared Against: JUNE 2024 (241) 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

Tray

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



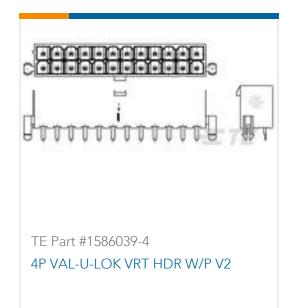


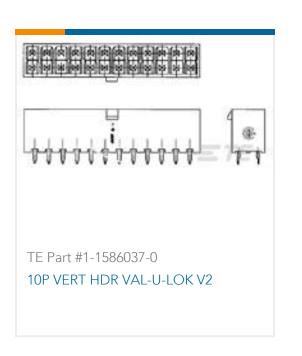


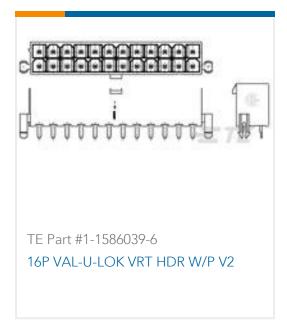
# **Customers Also Bought**



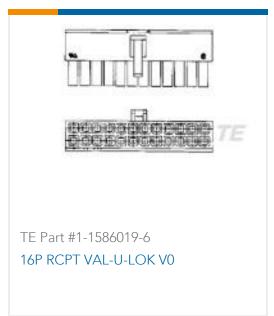


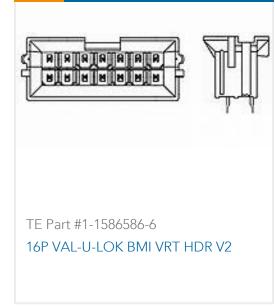
















### **Documents**



### **Product Drawings**

6P VAL-U-LOK VRT HDR W/P V2

English

**CAD Files** 

3D PDF

English

**Customer View Model** 

ENG\_CVM\_1586039-6\_B.3d\_stp.zip

English

**Customer View Model** 

ENG\_CVM\_1586039-6\_B.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_1586039-6\_B.3d\_igs.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

## Agency Approvals

**UL Report** 

English