



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

Operating Voltage	600 VAC
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Body Features

Primary Product Color	Natural
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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
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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

Packaging Features

Packaging Quantity	300
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	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

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 # 794954-6
6P RCPT VAL-U-LOK V2

TE Part # 1969605-6
6P PM PLUG VAL-U-LOK PM GW

TE Part # 1969604-6
6P FH PLUG VAL-U-LOK FH GW

Customers Also Bought

TE Part #211903-1
CMC DUST CAP ASSM SIZE 22

TE Part #5-520315-9
TRIOMATE ASSY V 9P L=3.556LDFR

TE Part #1586039-4
4P VAL-U-LOK VRT HDR W/P V2

TE Part #1-1586037-0
10P VERT HDR VAL-U-LOK V2

TE Part #1-1586039-6
16P VAL-U-LOK VRT HDR W/P V2

TE Part #1-2176349-1
CRGCQ 2512 68R 1%

TE Part #1-1586019-6
16P RCPT VAL-U-LOK V0

TE Part #1-1586586-6
16P VAL-U-LOK BMI VRT HDR V2

TE Part #2-1969597-0
20P RCPT VAL-U-LOK V2

TE Part #ANT-433-HETH
Antenna 1/4 Wave Coil 433MHz THM

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