

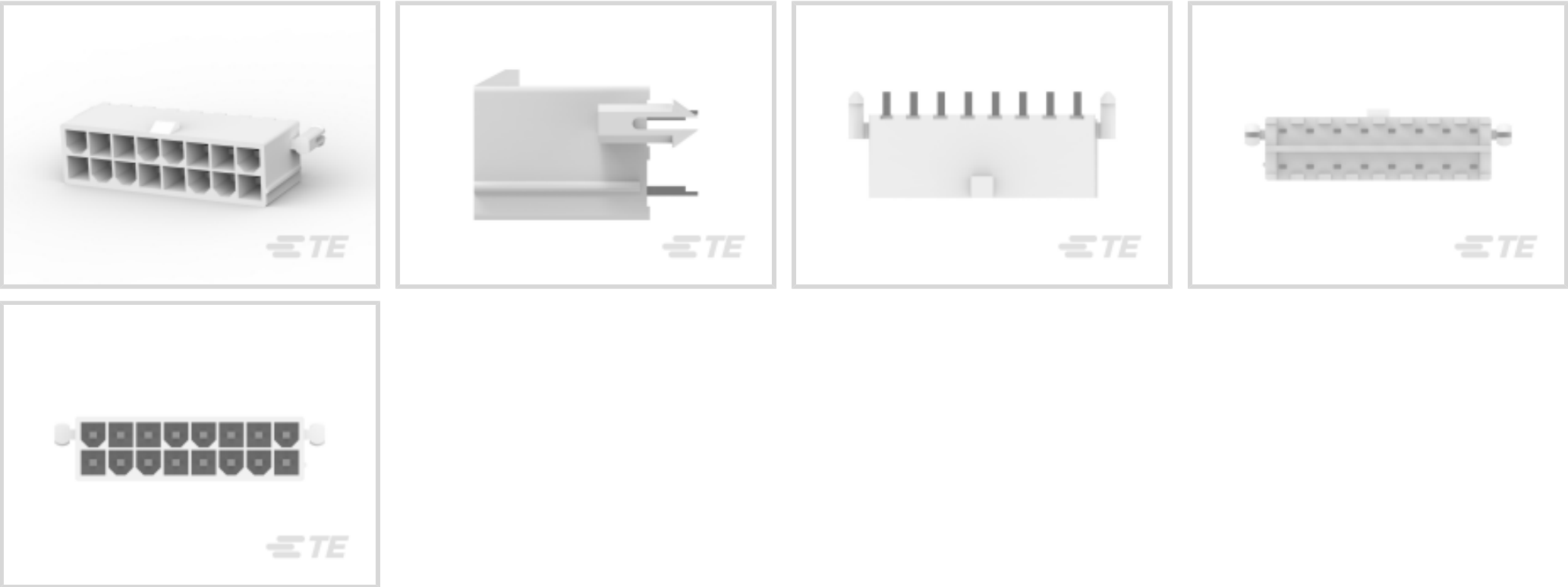


VAL-U-LOK

TE Internal #: 1-1586039-6
PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 4.2 mm [.165 in] Centerline, Fully Shrouded, Tin (Sn), Through Hole - Solder, Power, Natural

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
PCB Mount Orientation: **Vertical**
Connector System: **Wire-to-Board**
Number of Positions: **16**
Number of Rows: **2**

Features

Product Type Features

Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

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

Electrical Characteristics



Operating Voltage	600 VAC
Body Features	
Primary Product Color	Natural
Contact Features	
Contact Underplating Material	Nickel
Contact Underplating Material Thickness	.762 µm[30 µin]
Contact Mating Area Plating Material Thickness	2.032 µm[80 µin]
PCB Contact Termination Area Plating Material Thickness	2.032 µm[80 µin]
Contact Layout	Matrix
Contact Base Material	Brass Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin (Sn)
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 Retention Type	Locking Tab
Mating Retention	With
Mating Alignment Type	Keyed
PCB Mount Retention Type	Boardlock
PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With
Housing Features	
Housing Material	PA 66
Centerline (Pitch)	4.2 mm[.165 in]
Dimensions	
Row-to-Row Spacing	4.2 mm[.165 in]
Connector Width	9.75 mm[.384 in]



PCB Thickness (Recommended)	1.78 mm[.07 in]
Connector Height	12.8 mm[.504 in]
Connector Length	34.8 mm[1.37 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

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

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 1-1969604-6
16P FH PLUG VAL-U-LOK FH GW

TE Part # 1-1969605-6
16P PM PLUG VAL-U-LOK PM GW

TE Part # 1-794954-6
16P RCPT VAL-U-LOK V2

Customers Also Bought

TE Part #4-2176386-4
RQ 1206 34K8 0.1% 10PPM 1K RL

TE Part #1-794107-0
22P MINI UMNL R/A HDR ASSY LF

TE Part #1462041-3
IMB06CGR=IM RELAY 140mW 12V HDV

TE Part #8-1437657-0
8PCV-04-006=#8 TRIBARRIER

TE Part #9-2176091-0
RP 2A 0.25W 511R 0.1% 25PPM 1K RL

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

TE Part #640900-1
05P UMNL PIN HDR ASSY 94VO

TE Part #3-647168-4
04P MTA100 HDR ASSY SM 30AU LF

TE Part #796867-6
6 POS TERMI-BLOK HDR VERTICAL

TE Part #M5241-000005-01KPG
PRESS XDCR M5241-000005-01KPG



Documents

Product Drawings

16P VAL-U-LOK VRT HDR W/P V2

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_1-1586039-6_B.3d_igs.zip

English

Customer View Model

ENG_CVM_1-1586039-6_B.3d_stp.zip

English

Customer View Model

ENG_CVM_1-1586039-6_B.2d_dxf.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

UL Report

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