



VAL-U-LOK

TE Internal #: 1586039-4
Header, Plug, Wire-to-Board, 4 Position, 4.2 mm [.165 in]
Centerline, Printed Circuit Board, UL 94V-2, Rectangular Power
Connectors

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Rectangular Power Connector Type: **Header**
Connector & Housing Type: **Plug**
Connector System: **Wire-to-Board**
Number of Positions: **4**
Centerline (Pitch): **4.2 mm [.165 in]**

Features

Product Type Features

Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	4
PCB Mount Orientation	Vertical
Number of Power Positions	4
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Layout	Inline
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Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	9 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	2.03 – 5.08 µm[80 – 200 µin]

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
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	4.2 mm[.165 in]
Housing Color	Natural
Housing Material	PA 66

Dimensions

Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Product Width	9.8 mm[.386 in]
Product Length	9.6 mm[.378 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Row-to-Row Spacing	4.2 mm[.165 in]

Usage Conditions

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



Circuit Application	Power
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Identification Marking

Circuit Identification Feature	With
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Industry Standards

CSA Rating	208567
UL Rating	Recognized
Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-2
Glow Wire Rating	Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity	375
Packaging Method	Box & Tray, 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

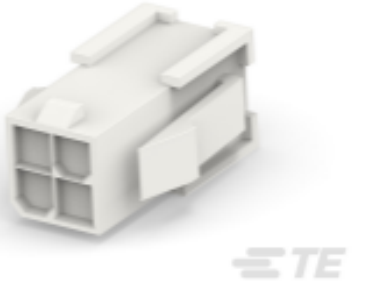


requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

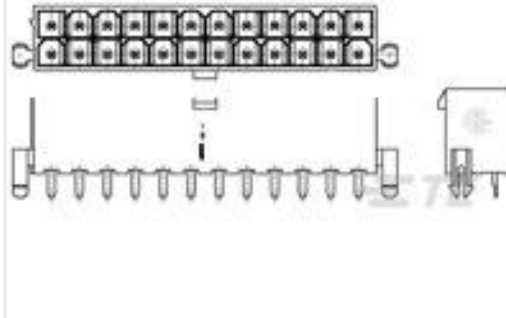
Compatible Parts



TE Part # 794954-4
4P RCPT VAL-U-LOK V2



TE Part # 1969605-4
4P PM PLUG VAL-U-LOK PM GW

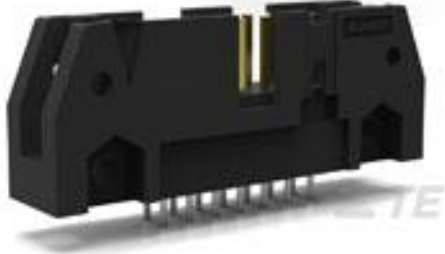


TE Part # 2029172-4
4P VRT HDR VAL-U-LOK V2 W/ODH



TE Part # 1969604-4
4P FH PLUG VAL-U-LOK FH GW

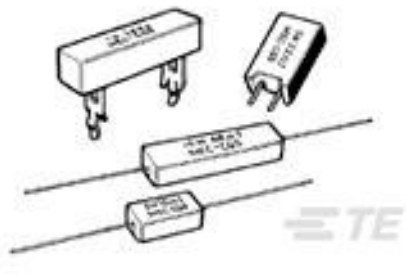
Customers Also Bought



TE Part #5102153-2
A/L UNIV HDR 14P VERT



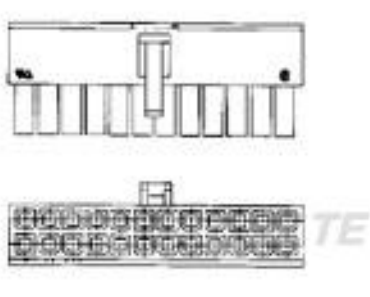
TE Part #165168
TERM, WIRE PIN, PIDG, 22-16



TE Part #1623788-9
SQM5 1R0 5% (WIRE)



TE Part #3-1415006-1
V23047-A1048-A501



TE Part #794954-4
4P RCPT VAL-U-LOK V2



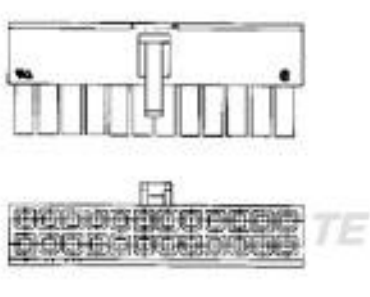
TE Part #1-1546670-4
14P.437" DR BARRIER,W/BND SCRWB"



TE Part #B8965C
WHIP,MC,CC,896-970MHz TUN,5,CH, GP,



TE Part #BB8962N
WHIP,MC,1/2,896-970MHz TUN,2.4,BK, NGP,



TE Part #AKIT-B4303S-001
WHIP,MC,5/8,430-450MHZ

Documents

Product Drawings
4P VAL-U-LOK VRT HDR W/P V2
English



CAD Files

3D PDF

English

Customer View Model

ENG_CVM_1586039-4_B.3d_stp.zip

English

Customer View Model

ENG_CVM_1586039-4_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_1586039-4_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