

1-1586038-2 ✓ ACTIVE

VAL-U-LOK

TE Internal #: 1-1586038-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 12

Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-0

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **12**

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	12
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Layout	Inline, Matrix
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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 µm[80 µin]

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Keyed
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

Compatible Insulation Diameter (Max)	2.39 mm[.093 in]
Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Product Width	9.75 mm[.384 in]
Product Length	26.4 mm[1.039 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

Identification Marking

Circuit Identification Feature

With

Industry Standards

UL Rating

Recognized

Compatible With Agency/Standards Products

UL

Compatible With Approved Standards Products

UL E28476

UL Flammability Rating

UL 94V-0

Glow Wire Rating

Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity

225

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

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 2024
(240)Candidate List Declared Against: JAN 2024
(240)

Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per
homogenous material. Also BFR/CFR/PVC
Free

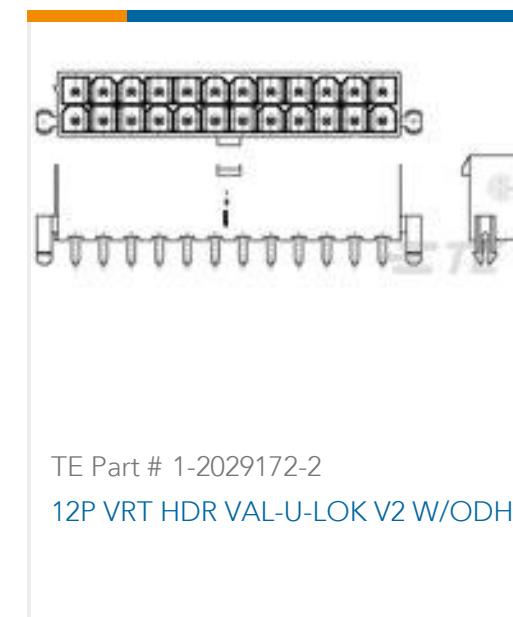
Solder Process Capability

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 # 1-1586019-2
12P RCPT VAL-U-LOK V0TE Part # 1-1969613-2
12P PM PLUG VAL-U-LOK V0TE Part # 1-1969612-2
12P FH PLUG VAL-U-LOK V0TE Part # 1-2029172-2
12P VRT HDR VAL-U-LOK V2 W/ODH

Customers Also Bought

TE Part # 4-1393789-3
V23079D2001B301TE Part # 1734366-3
Std USB Type A, VT, T/H, BlueTE Part # 324893
SPLICE,SOLIS BUTT STRAP 12-10TE Part # 1734753-1
MINI USB, TYPE B, VERTICAL, T/HTE Part # 1-292207-4
MINI CT SGL DIP V 14P NATTE Part # 1571983-8
GDH06S04=DIP SWITCHTE Part # 515632-E
M12 MALE, UNI CODE, 8P, 10.5MM
SMT, DITE Part # 1-2176308-3
RP 1E 0.1W 178K 0.1% 25PPM 5K RLTE Part # 5000638-F
LDES050BF6S; PRES; 50Pa;0,5...4,5V;
5VsTE Part # 4-2176455-1
CPF 0402 287K 0.1% 25ppm 1K RL

Documents

Product Drawings

[12P VRT HDR VAL-U-LOK V0](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model[ENG_CVM_CVM_1-1586038-2_C.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_CVM_1-1586038-2_C.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_CVM_1-1586038-2_C.3d_stp.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