



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: **6**

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	6
PCB Mount Orientation	Vertical
Number of Power Positions	6
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
-------------------	---------

Contact Features

Contact Layout	Inline, Matrix
----------------	----------------



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	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 Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

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

Housing Features

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

Dimensions

Insulation Diameter (Max)	2.39 mm[2.39 in]
Row-to-Row Spacing	4.2 mm[.165 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Width	9.75 mm[.384 in]
Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Height	12.8 mm[.504 in]
Length	13.8 mm[.543 in]

Usage Conditions

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

Operation/Application

--



Circuit Application	Power
---------------------	-------

Identification Marking

Circuit Identification Feature	With
--------------------------------	------

Industry Standards

UL Flammability Rating	UL 94V-2
Glow Wire Rating	Standard Part - Not Glow Wire
Agency/Standard Number	E28476
Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	208567
VDE Tested	No

Packaging Features

Packaging Method	Bag, Box & Tray
Packaging Quantity	420

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 2022 (224) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Not Yet Reviewed
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



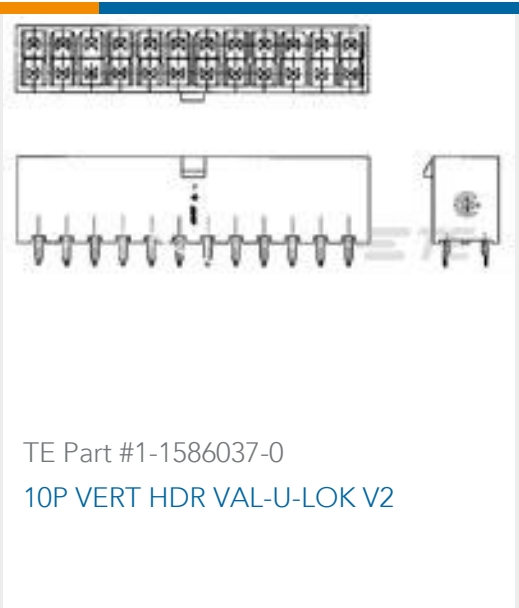
materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest 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 # 1969598-6 6P FH PLUG VAL-U-LOK V2	 TE Part # 1969599-6 6P PM PLUG VAL-U-LOK V2	 TE Part # 2029027-6 6P PLUG VAL-U-LOK FH V2 BLK
 TE Part # 2029090-6 6P PLUG VAL-U-LOK V2 FH RED	 TE Part # 2029096-6 6P PLUG VAL-U-LOK V2 FH BLUE		

Customers Also Bought

 TE Part #1-1586037-2 12P VERT HDR VAL-U-LOK V2	 TE Part #1-829315-0 2X10P MOD2 STIFTLI	 TE Part #1-1586037-4 14P VERT HDR VAL-U-LOK V2	 TE Part #1-1586037-6 16P VERT HDR VAL-U-LOK V2
 TE Part #2-1445084-2 micro mnl hdr assy s/row au lf	 TE Part #284041-3 TERMINAL BLOCK VERTICAL PLUG S	 TE Part #4-1123724-2 3.96EP HDR ASSY 2(3)P RED	 TE Part #216562-3 4/4 PCB MOD.JACK TE



Documents

Product Drawings

6P VERT HDR VAL-U-LOK V2

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_1586037-6_B.3d_igs.zip

English

Customer View Model

ENG_CVM_1586037-6_B.3d_stp.zip

English

Customer View Model

ENG_CVM_1586037-6_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

Product Environmental Compliance

Product Compliance

English

Product Compliance

English

Agency Approvals

UL Report

English