1-2029172-0 ✔ ACTIVE

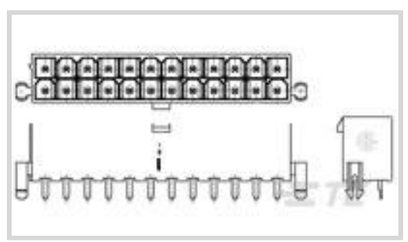
VAL-U-LOK

TE Internal #: 1-2029172-0

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 10 Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-2

View on TE.com >

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: **10**

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	10
PCB Mount Orientation	Vertical
Number of Power Positions	10
Number of Signal Positions	0
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC

Contact Features

Contact Layout	Inline
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

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	Polarization
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	With
PCB Mount Retention Type	Pegs
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

Row-to-Row Spacing	4.2 mm[.165 in]
PCB Thickness (Recommended)	.07 mm[1.78 in]
Width	9.75 mm[.383 in]
Height	12.8 mm[.504 in]
Length	22.2 mm[.874 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power

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

Packaging Features

Packaging Method	Package

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: JUL 2017 (174) 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 10 Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-2

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

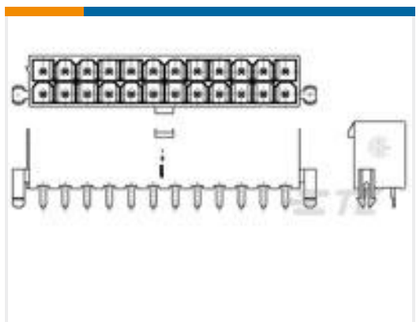
TE Part # 1-1586039-0
10P VAL-U-LOK VRT HDR W/P V2

TE Part # 1-1586040-0
10P VAL-U-LOK VRT HDR W/P V0

TE Part # 1-1586038-0
10P VRT HDR VAL-U-LOK V0

TE Part # 1-1586586-0
10P VAL-U-LOK BMI VRT HDR V2

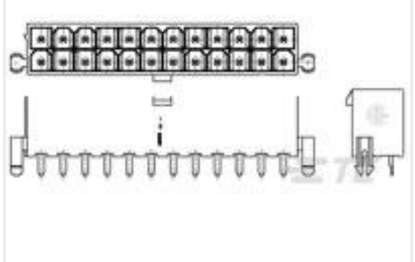
TE Part # 1-1586768-0
10P VERT HDR VAL-U-LOK GW



TE Part # 1-2029172-2
12P VRT HDR VAL-U-LOK V2 W/ODH

TE Part # 1-2029265-0
10P VAL-U-LOK VRTHDR W/PGS GW

TE Part # 2029059-2
2P VAL-U-LOK VRTHDR W/PGS GW



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

Documents

Product Drawings

10P VRT HDR VAL-U-LOK V2 W/ODH

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2029172-0_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-2029172-0_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2029172-0_A.3d_stp.zip

English

Product Specifications

Application Specification

English