1-1586039-0 ✔ ACTIVE

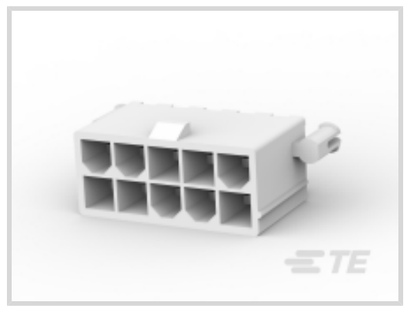
VAL-U-LOK

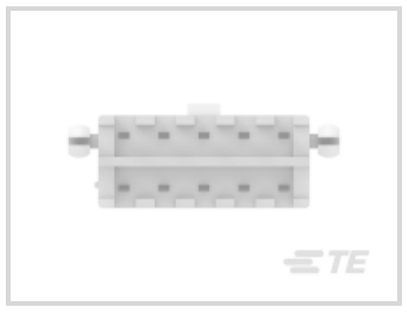
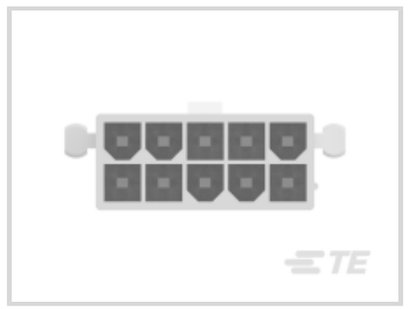
TE Internal #: 1-1586039-0

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 10 Position, 4.2mm [.165in] 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

Header Type	Shrouded
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 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 µm[80 µin]

Termination Features

Termination Post & Tail Length	3.6 mm[.138 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Keyed
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
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	PA 66

Dimensions

Insulation Diameter (Max)	2.39 mm[2.39 in]
Row-to-Row Spacing	4.2 mm[.165 in]
PCB Thickness (Recommended)	.07 mm[1.78 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	22.2 mm[.874 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	Box & Tray, Tray
Packaging Quantity	210

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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) 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

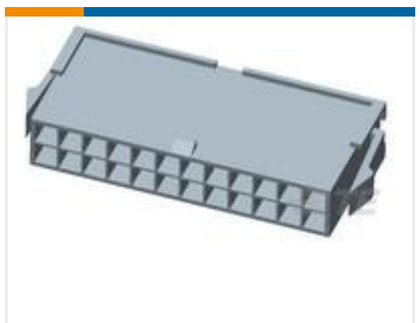
Compatible Parts



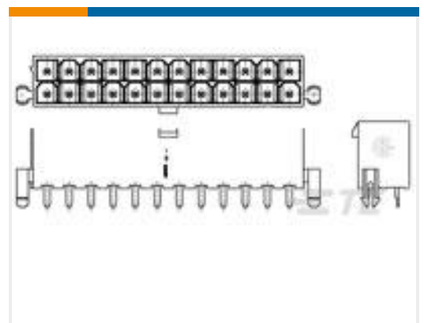
TE Part # 1-794954-0
10P RCPT VAL-U-LOK V2



TE Part # 1-1969604-0
10P FH PLUG VAL-U-LOK FH GW

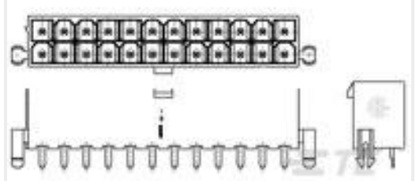


TE Part # 1-1969605-0
10P PM PLUG VAL-U-LOK PM GW

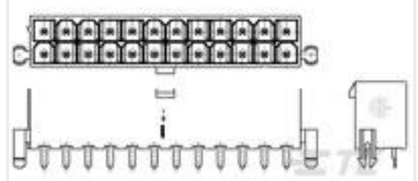


TE Part # 1-2029172-0
10P VRT HDR VAL-U-LOK V2 W/ODH

Customers Also Bought



TE Part #1586039-6
6P VAL-U-LOK VRT HDR W/P V2



TE Part #1586039-4
4P VAL-U-LOK VRT HDR W/P V2



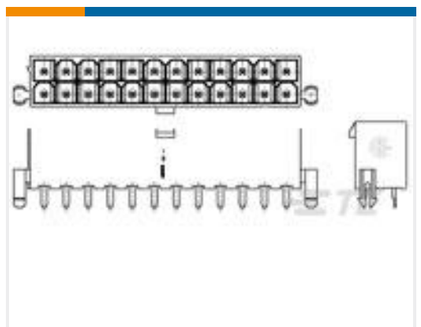
TE Part #EH2296-000
DWFR-8/2-0-STK



TE Part #1-2176326-6
CRGP 0603 180R 1%



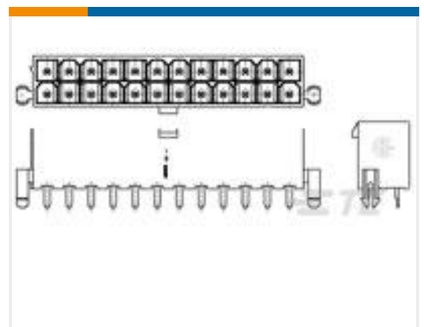
TE Part #1-2176331-7
CRGP 2512 220R 1%



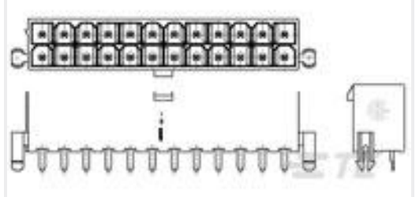
TE Part #1586039-2
2P VAL-U-LOK VRT HDR W/P V2



TE Part #1-640445-0
10P MTA156 HDR ASSY FL/STR SN



TE Part #1-1586039-4
14P VAL-U-LOK VRT HDR W/P V2



TE Part #1-1586039-8
18P VAL-U-LOK VRT HDR W/P V2



TE Part #1-770005-1
UMNL II PIN PHBZ 30AU

Documents

Product Drawings

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

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_1-1586039-0_B.3d_igs.zip

English

Customer View Model

ENG_CVM_1-1586039-0_B.3d_stp.zip

English

Customer View Model

ENG_CVM_1-1586039-0_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