

1586768-2 ✓ ACTIVE



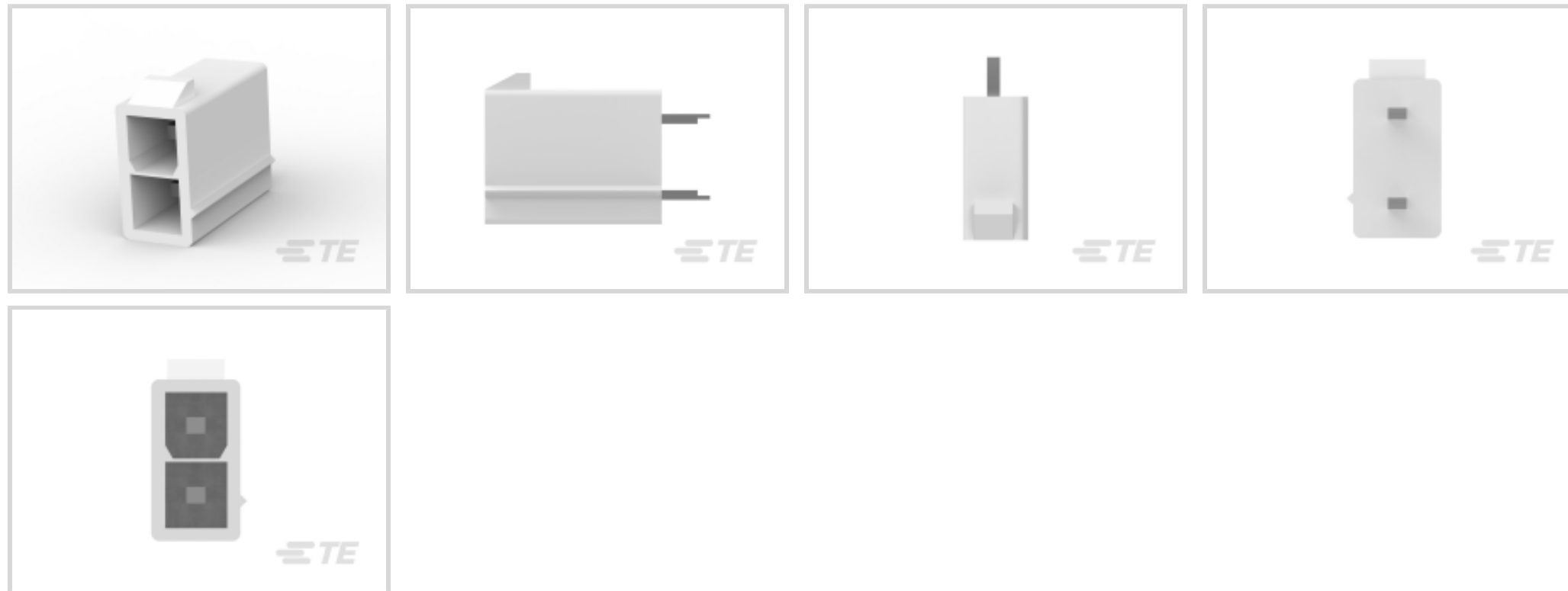
VAL-U-LOK

TE Internal #: 1586768-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 2 Position, .165 in [4.2 mm] 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: **2**

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

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

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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	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	White
Housing Material	Polyamide

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[.383 in]
Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Height	12.8 mm[.504 in]
Length	5.4 mm[.213 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

UL Flammability Rating	UL 94V-2
Glow Wire Rating	GWT 750°C (Without Flame)
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	1050

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



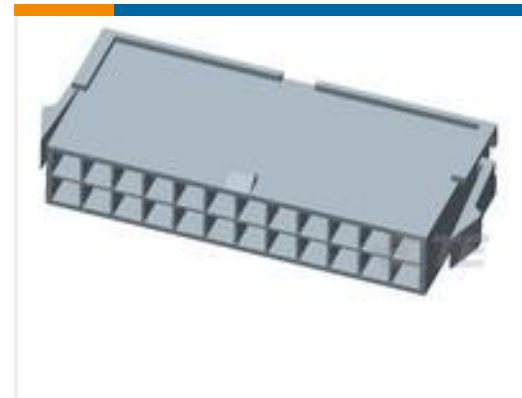
TE Part # 1586862-2
2P FH PLUG VAL-U-LOK FH GW



TE Part # 1586861-2
2P PM PLUG VAL-U-LOK PM GW



TE Part # 2296206-2
2P FH PLUG VAL-U-LOK FH GWT/V0



TE Part # 2296207-2
2P PM PLUG VAL-U-LOK PM GWT/V0

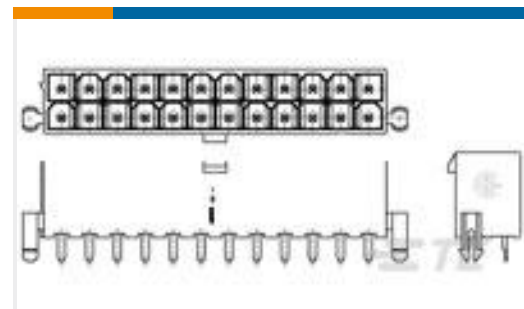
Customers Also Bought



TE Part #1744429-7
3.96 EP HDR ASSY 7P W/PEGS, GW



TE Part #1744057-6
3.96 EP HDR ASSY 6P W/PEGS



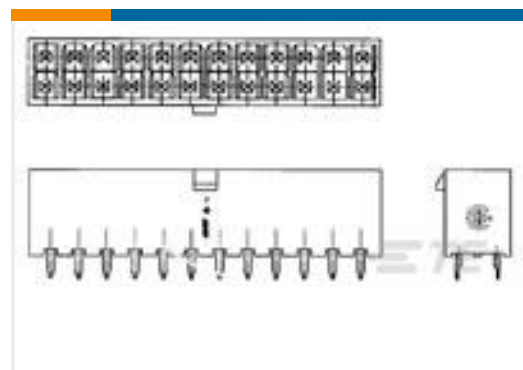
TE Part #1-2029265-2
12P VAL-U-LOK VRTHDR W/PGS GW



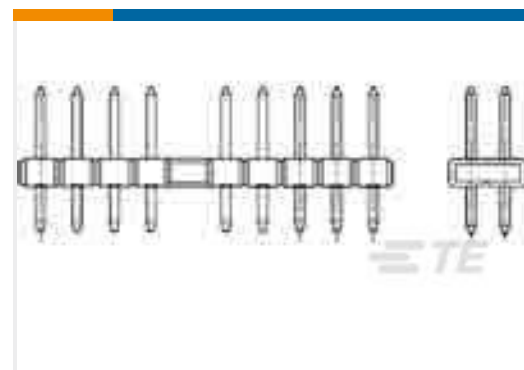
TE Part #5-2176362-3
RQ 0402 140R 0.1% 10PPM 5K RL



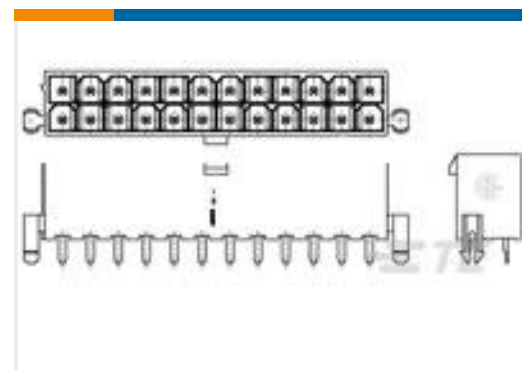
TE Part #2176364-8
RQ 0402 5K49 0.1% 10PPM 5K RL



TE Part #1586768-4
4P VERT HDR VAL-U-LOK GW



TE Part #5176264-9
AMP MODU 2MM V 20P AU:0.2 BLACK LF



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

Documents

Product Drawings

2P VERT HDR VAL-U-LOK GW

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1586768-2_B_c-1586768-2-b.2d_dxf.zip

English



Customer View Model

[ENG_CVM_CVM_1586768-2_B_c-1586768-2-b.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1586768-2_B_c-1586768-2-b.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[VAL-U-LOK_GLOW_WIRE_CONNECTORS](#)

English

Product Environmental Compliance

[Product Compliance](#)

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English

Agency Approvals

[VDE Certificate](#)

English