1-1586041-0 ✔ ACTIVE

VAL-U-LOK

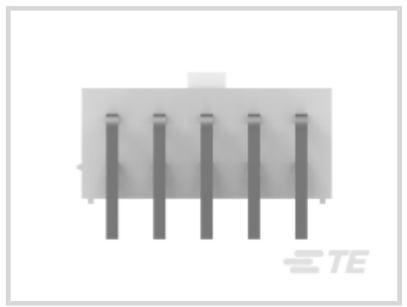
TE Internal #: 1-1586041-0

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

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	Right Angle
Number of Power Positions	10
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC

Contact Features

Contact Layout	Inline

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 PCB	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

Connector Height	9.8 mm[.386 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Product Width	13 mm[.512 in]
Product Length	22.2 mm[.874 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]

Operation/Application

Circuit Application	Power

Identification Marking

Circuit Identification Feature	With

Industry Standards

CSA Rating	208567
UL Rating	Recognized
Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-2
Glow Wire Rating	Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity	170
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	Not Yet Reviewed
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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

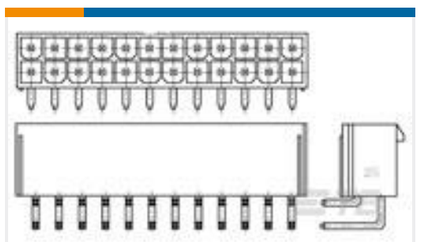


TE Part # 1-1969598-0
10P FH PLUG VAL-U-LOK V2

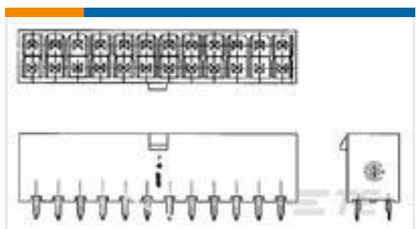


TE Part # 1-1969599-0
10P PM PLUG VAL-U-LOK V2

Customers Also Bought



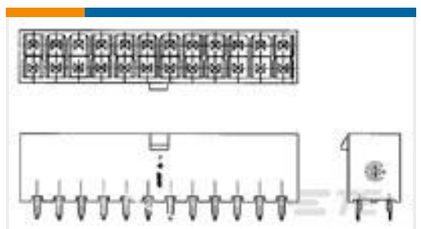
TE Part #2-1586041-0
20P VAL-U-LOK R/A HDR V2



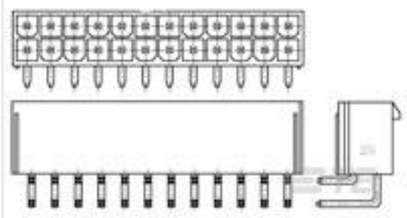
TE Part #1586037-6
6P VERT HDR VAL-U-LOK V2



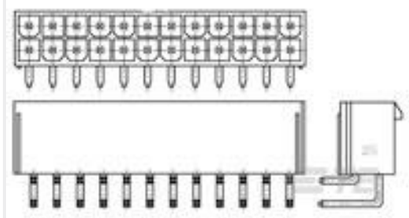
TE Part #7-1393239-3
RT31L012



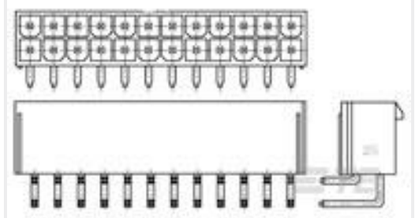
TE Part #1-1586037-4
14P VERT HDR VAL-U-LOK V2



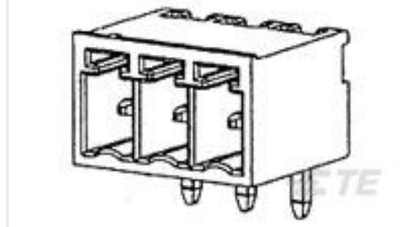
TE Part #1-1586041-8
18P VAL-U-LOK R/A HDR V2



TE Part #1586041-2
2P VAL-U-LOK R/A HDR V2



TE Part #1586041-6
6P VAL-U-LOK R/A HDR V2



TE Part #284512-3
3 POS TERMI-BLOK HDR 900 POLAR



TE Part #216562-3
4/4 PCB MOD.JACK TE

Documents

Product Drawings

10P VAL-U-LOK R/A HDR V2

English

CAD Files

Customer View Model

ENG_CVM_1-1586041-0_B.3d_stp.zip

English

Customer View Model

ENG_CVM_1-1586041-0_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_1-1586041-0_B.3d_igs.zip

English

3D PDF

English

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Datasheets & Catalog Pages

SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

English

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English

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TE Connectivity:

1743455-2 1903112-2 SBCHE154R7K SBCHE64R7K SMW73R0JT 2834055-1 CRGCQ2010J3K3 U5254-000005-030PA 917696-1 936348-1 RH73H2A40MKTN 1-962915-1 1969656-1 2310537-1 2377783-2 650075-000 ROX05SJ18R 2380312-2 1-794222-0 2-292161-3 2005330-1 3-1393225-0 CPF0402B37K4E1 TE50BR39J 141991-2 175977-2 3430B2F51RTDF 3631B101LL 1393431-1 MPT100C18RF