

1586041-6 ✓ ACTIVE



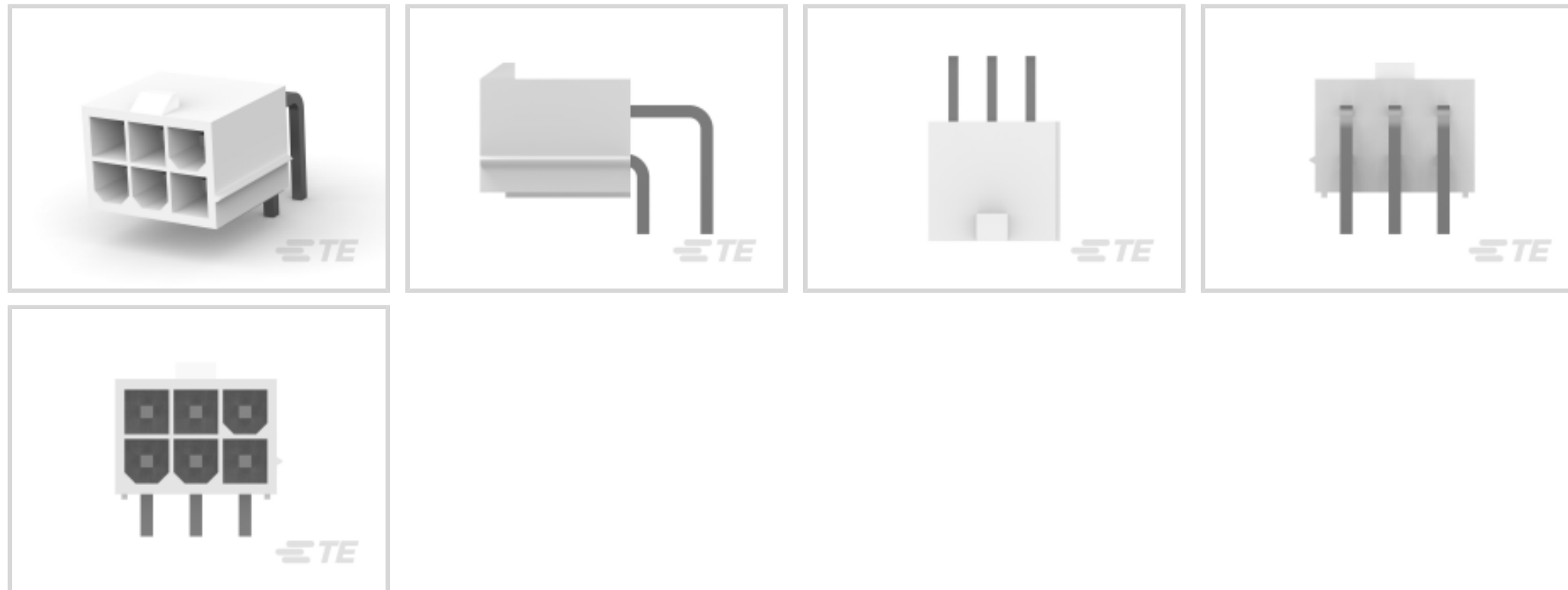
VAL-U-LOK

TE Internal #: 1586041-6

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 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: **6**

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	6
PCB Mount Orientation	Right Angle
Number of Power Positions	6
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

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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	3.6 mm[.14 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	13 mm[.51 in]
Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Height	9.8 mm[.386 in]
Length	13.8 mm[.543 in]

Usage Conditions

Operating Temperature Range	-40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$]
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Operation/Application

Assembly Integration Feature	Without
Circuit Application	Power

Identification Marking

Circuit Identification Feature	With
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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	280

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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

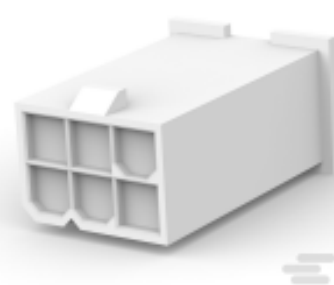
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



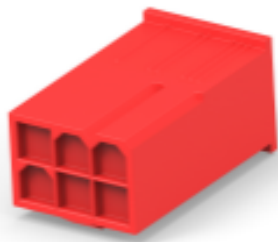
TE Part # 1969598-6
6P FH PLUG VAL-U-LOK V2



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



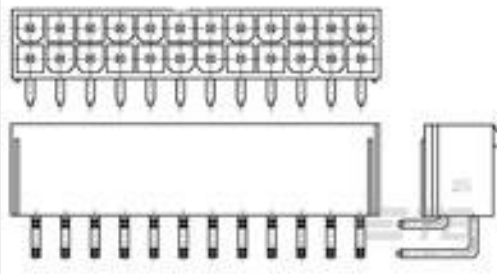
TE Part #100145-1
HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



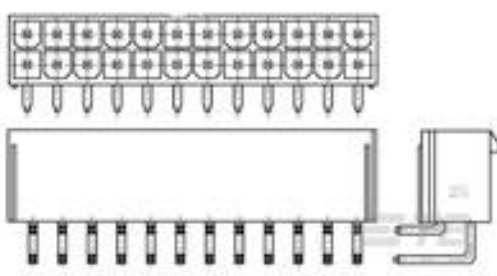
TE Part #1-413985-1
SMB Connector: Female (Plug), Mated Outer Dia. 4.75mm, 50 Ohm



TE Part #1217133-1
187 FASTON,PCB TAB,TNBR



TE Part #1-1586041-0
10P VAL-U-LOK R/A HDR V2



TE Part #1-1586041-2
12P VAL-U-LOK R/A HDR V2



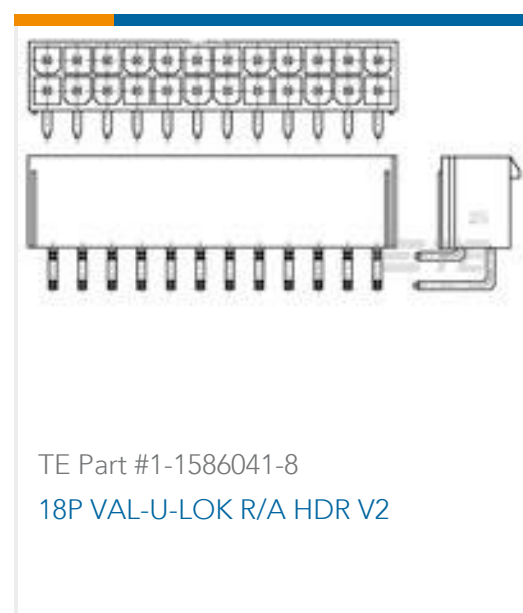
TE Part #1-1734248-5
1.0 FPC, ZIF V/T, SMT, 15P



TE Part #DRC13-24PB
DEUTSCH DRC HEADERS



TE Part #1-1705949-1
RJ22 Connectors



Documents

Product Drawings

6P VAL-U-LOK R/A HDR V2

English

CAD Files

Customer View Model

[ENG_CVM_1586041-6_B.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_1586041-6_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_1586041-6_B.3d_igs.zip](#)

English

3D PDF

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

TE Material Declaration

English

Agency Approvals

UL Report

English