



## RECTANGULAR POWER CONNECTORS



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TE CONNECTIVITY (TE)

### 10P VERT HDR VAL-U-LOK V2

[VAL-U-LOK](#) | [VAL-U-LOK](#)

1-1586037-0

TE Internal Number: 1-1586037-0

Always EU RoHS/ELV Compliant

Product Type **Header**

Housing Type **Plug**

Connector System **Wire-to-Board**

Applies To **Printed Circuit Board**

Contact Current Rating (A) **9**

#### Product Drawings

[VERTICAL HEADER WITHOUT PEGS, WITH DRAIN HOLES VAL-U-LOK\(TM\)](#)

PDF  
English

#### CAD Files

[Customer View Model](#)

3D\_STP.ZIP  
English

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

2D\_DXF.ZIP  
English

[3D PDF](#)

PDF  
English

#### Catalog Pages/Data Sheets

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

PDF  
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#### Product Specifications

Product Specification

[VAL-U-LOK Connectors](#)

PDF  
English

Application Specification

[VAL-U-LOK Series Headers, Connectors And TPA Accessories](#)

PDF  
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

	Housing Type	<b>Plug</b>
	Contact Type	<b>Pin</b>
	Header Type	<b>Shrouded</b>
Configuration Features	Number of Positions	<b>10</b>
	Centerline	<b>4.2 mm [ .165 in ]</b>
	PCB Mounting Orientation	<b>Vertical</b>
	Number of Signal Positions	<b>10</b>
	Number of Rows	<b>2</b>
	Row-to-Row Spacing	<b>4.2 mm [ .165 in ]</b>
	Contact Layout	<b>Inline, Matrix</b>
Electrical Characteristics	Contact Current Rating (A)	<b>9</b>
	Operating Voltage (VAC)	<b>600</b>
Contact Features	Contact Retention	<b>With</b>
	Contact Termination Area Plating Material	<b>Brass Alloy, Tin</b>
Termination Features	Wire/Cable Size (AWG)	<b>26 – 18</b>
	Wire/Cable Size (mm <sup>2</sup> )	<b>.12 – 1.4</b>
	Termination Method to PC Board	<b>Through Hole - Solder</b>
	Termination Post/Tail Length	<b>3.5 mm [ .138 in ]</b>
Mechanical Attachment	Mating Alignment	<b>With</b>
	Mating Retention	<b>With</b>
	PCB Mount Retention	<b>Without</b>
	Mating Alignment Type	<b>Keyed</b>
	PCB Mount Alignment	<b>Without</b>
	Mating Retention Type	<b>Latch</b>
Housing Features	UL Flammability Rating	<b>UL 94V-2</b>
	Housing Color	<b>Natural</b>
	Housing Material	<b>Nylon</b>
Dimensions	Accepts Wire Insulation Diameter Range	<b>1.2 – 3.1 mm [ .047 – .122 in ]</b>
	Width	<b>9.75 mm [ .384 in ]</b>
	Height	<b>12.8 mm [ .504 in ]</b>

	PCB Thickness (Recommended)	1.6 mm [ .063 in ]
	Length	22.2 mm [ .874 in ]
	Insulation Diameter (Max) (mm)	2.39
Usage Conditions	Sealed Condition	Not Sealed
Operation/Application	Connector System	Wire-to-Board
	Applies To	Printed Circuit Board
	Operating Temperature	-40 – 105 °C [ -40 – 221 °F ]
	Circuit Application	Signal
Identification Marking	Circuit Identification Feature	With
Industry Standards	Glow Wire Rating	Standard Part - Not Glow Wire
	VDE Tested	No
	Agency/Standard Number	E28476
	UL Rating	Recognized
	CSA File Number	208567
	Agency/Standard	CSA, UL
Packaging Features	Packaging Method	Bag, Tray/Box
	Packaging Quantity	255
Other	Selectively Loaded	No
Product Compliance	<a href="#">Statement of Compliance</a> PDF	
	<a href="#">VIEW ALL PRODUCT COMPLIANCE</a>	

Products - 2 Results

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Relation Type



RELATIONSHIP

Mating Products

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

Connectors - Rectangular Power Connectors  
AMP-DUAC | VAL-U-LOK

Always EU RoHS/ELV Compliant

✓

10P DUAC REC HSG  
- 1-106527-0

TE INTERNAL NUMBER: 1-106527-0


✓ Active

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

Connectors - Rectangular Power Connectors  
VAL-U-LOK | VAL-U-LOK

Always EU RoHS/ELV Compliant

✓

10P RCPT VAL-U-LOK V2  
- 1-794954-0

TE INTERNAL NUMBER: 1-794954-0

✓ Active

Product Type **Housing**

Housing Type **Receptacle**

Connector System **Wire-to-Board, Wire-to-Wire**

Applies To **Wire/Cable**

Number of Positions **10**