



# RECTANGULAR POWER CONNECTORS



TE CONNECTIVITY (TE)

## 6P VAL-U-LOK R/A HDR V0

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

1586042-6

TE Internal Number: 1586042-6

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**

Active

[PRODUCT DRAWING](#)  
English

[3D PDF](#)

### Product Drawings

[RIGHT ANGLE HEADER, WITHOUT PEGS VAL-U-LOK\(TM\)](#)

PDF  
English

### CAD Files

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

3D\_STP.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  
English

### Product Specifications

Product Specification

[VAL-U-LOK Connectors](#)

PDF  
English

Application Specification

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

PDF  
English

### Product Environmental Compliance

TE Material Declaration

[MD\\_1586042-6\\_05272014021\\_dmtec](#)

PDF  
English

Drawing for all design activity.

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Product Type Features	Product Type	<b>Header</b>
	Housing Type	<b>Plug</b>
	Contact Type	<b>Pin</b>
	Header Type	<b>Shrouded</b>

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Configuration Features	Number of Positions	<b>6</b>
	Centerline	<b>4.2 mm [ .165 in ]</b>
	PCB Mounting Orientation	<b>Right Angle</b>
	Number of Signal Positions	<b>6</b>
	Number of Rows	<b>2</b>
	Row-to-Row Spacing	<b>4.2 mm [ .165 in ]</b>
	Contact Layout	<b>Inline, Matrix</b>

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Electrical Characteristics	Contact Current Rating (A)	<b>9</b>
	Operating Voltage (VAC)	<b>600</b>

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Contact Features	Contact Retention	<b>With</b>
	Contact Termination Area Plating Material	<b>Tin</b>

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Termination Features	Wire/Cable Size (AWG)	<b>16 – 26</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>3.6 mm [ .14 in ]</b>

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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>
	Assembly Integration Feature	<b>Without</b>
	Mating Retention Type	<b>Latch</b>

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Housing Features	UL Flammability Rating	<b>UL 94V-0</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>13 mm [ .51 in ]</b>
	Height	<b>9.8 mm [ .386 in ]</b>
	PCB Thickness (Recommended)	<b>1.6 mm [ .063 in ]</b>
	Length	<b>13.8 mm [ .543 in ]</b>
	Insulation Diameter (Max) (mm)	<b>2.39</b>
Usage Conditions	Sealed Condition	<b>Not Sealed</b>
Operation/Application	Connector System	<b>Wire-to-Board</b>
	Applies To	<b>Printed Circuit Board</b>
	Operating Temperature	<b>-40 – 105 °C [ -40 – 221 °F ]</b>
	Circuit Application	<b>Signal</b>
Identification Marking	Circuit Identification Feature	<b>With</b>
Industry Standards	Glow Wire Rating	<b>Standard Part - Not Glow Wire</b>
	VDE Tested	<b>No</b>
	Agency/Standard Number	<b>E28476</b>
	UL Rating	<b>Recognized</b>
	CSA File Number	<b>208567</b>
	Agency/Standard	<b>CSA, UL</b>
Packaging Features	Packaging Method	<b>Tray, Tray/Box</b>
	Packaging Quantity	<b>280</b>
Other	Selectively Loaded	<b>No</b>
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  
VAL-U-LOK | VAL-U-LOK

**06P RCPT HSG 94V-0**  
- 794657-6

TE INTERNAL NUMBER: 794657-6

✓ Active

Always EU RoHS/ELV Compliant

Product Type **Housing**

Housing Type **Receptacle**

Connector System **Wire-to-Board**

Applies To **Printed Circuit Board**

UL Flammability Rating **UL 94V-0**



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

**6P RCPT VAL-U-LOK V0**  
- 1586019-6

TE INTERNAL NUMBER: 1586019-6

✓ Active

Always EU RoHS/ELV Compliant

Product Type **Housing**

Housing Type **Receptacle**

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

Applies To **Wire/Cable**

Number of Positions **6**

