



RECTANGULAR POWER CONNECTORS



TE CONNECTIVITY (TE)

12P VRT HDR VAL-U-LOK V0

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

1-1586038-2

TE Internal Number: 1-1586038-2

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

[WITH DRAIN HOLES VAL-U-LOK\(TM\)](#)

PDF
English

CAD Files

[3D PDF](#)

PDF
3D

[Customer View Model](#)

2D_DXF.ZIP
English

[Customer View Model](#)

3D_IGS.ZIP
English

[Customer View Model](#)

3D_STP.ZIP
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

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	Plug
	Contact Type	Pin
	Header Type	Shrouded
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Configuration Features	Number of Positions	12
	Centerline	4.2 mm [.165 in]
	PCB Mounting Orientation	Vertical
	Number of Signal Positions	12
	Number of Rows	2
	Row-to-Row Spacing	4.2 mm [.165 in]
	Contact Layout	Inline, Matrix
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Electrical Characteristics	Contact Current Rating (A)	9
	Operating Voltage (VAC)	600
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Contact Features	Contact Retention	With
	Contact Termination Area Plating Material	Brass Alloy, Tin
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Termination Features	Wire/Cable Size (AWG)	26 – 18
	Wire/Cable Size (mm ²)	.12 – 1.4
	Termination Method to PC Board	Through Hole - Solder
	Termination Post/Tail Length	3.5 mm [.138 in]
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Mechanical Attachment	Mating Alignment	With
	Mating Retention	With
	PCB Mount Retention	Without
	Mating Alignment Type	Keyed
	PCB Mount Alignment	Without
	Mating Retention Type	Latch
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Housing Features	UL Flammability Rating	UL 94V-0
	Housing Color	Natural
	Housing Material	Nylon
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Dimensions	Accepts Wire Insulation Diameter Range	1.2 – 3.1 mm [.047 – .122 in]
	Width	9.75 mm [.384 in]
	Height	12.8 mm [.504 in]

PCB Thickness (Recommended)	1.6 mm [.063 in]
Length	26.4 mm [1.0394 in]
Insulation Diameter (Max) (mm)	2.39

Usage Conditions	Sealed Condition	Not Sealed
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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
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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	Tray, Tray/Box
	Packaging Quantity	225

Other	Selectively Loaded	No
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Product Compliance [Statement of Compliance PDF](#)
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Products - 2 Results

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Relation Type 

RELATIONSHIP
Mating Products
 Used to identify Mating Parts

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PRODUCT - MATING PRODUCTS

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

12P RCPT HSG 94V-0
- 1-794657-2

TE INTERNAL NUMBER: 1-794657-2

✓ Active

Always EU RoHS/ELV Compliant

Product Type **Housing**

Housing Type **Receptacle**

Connector System **Wire-to-Board**

Applies To **Printed Circuit Board**

Number of Positions **12**



RELATIONSHIP

Mating Products

Used to identify Mating Parts

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PRODUCT - MATING PRODUCTS

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

12P RCPT VAL-U-LOK V0
- 1-1586019-2

TE INTERNAL NUMBER: 1-1586019-2

✓ Active

Always EU RoHS/ELV Compliant

