

1586038-6  ACTIVE

VAL-U-LOK

TE Internal #: 1586038-6

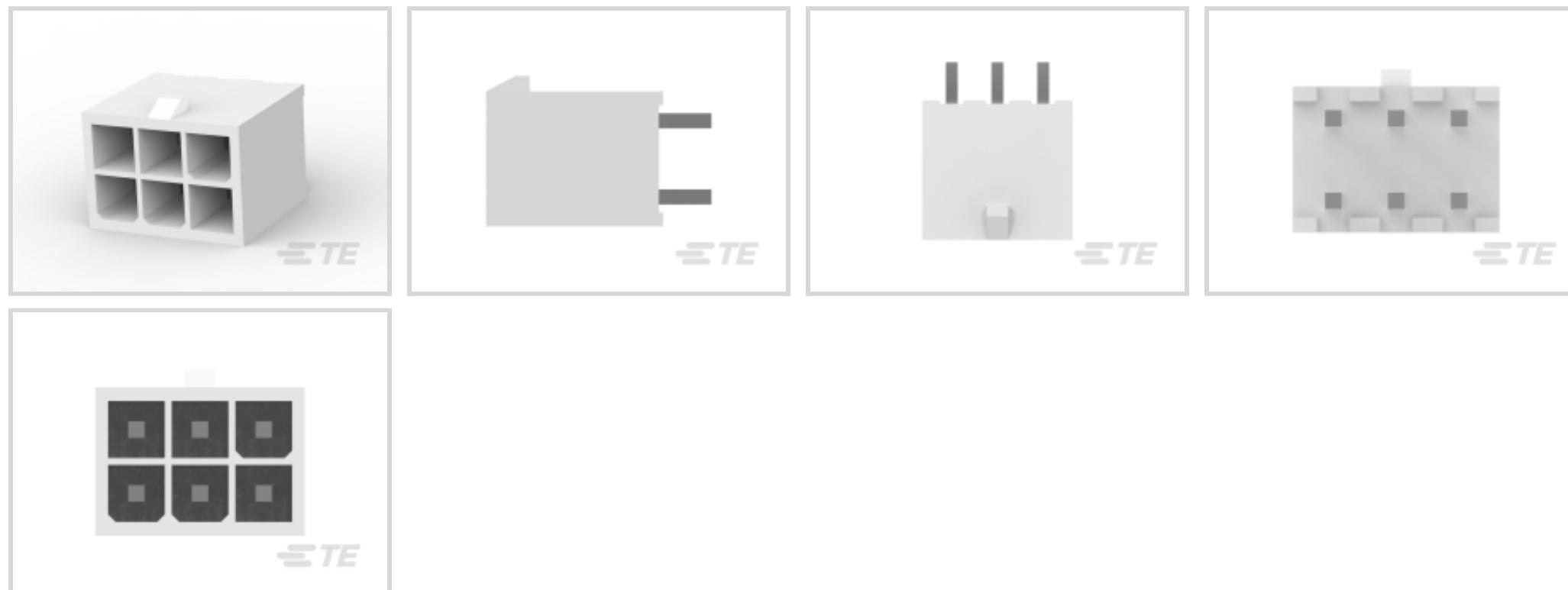
Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6

Position, 4.2 mm [.165 in] Centerline, Printed Circuit Board, UL 94V-0

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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

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	Vertical
Number of Power Positions	6
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

Contact Layout	Inline, Matrix
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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 - 5.08 μm [80 - 200 μin]

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to Printed Circuit Board	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

Compatible Insulation Diameter (Max)	2.39 mm[.093 in]
Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	.06 mm[.002 in]
Product Width	9.75 mm[.384 in]
Product Length	13.8 mm[.543 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]
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Operation/Application

Circuit Application

Power

Identification Marking

Circuit Identification Feature

With

Industry Standards

UL Rating

Recognized

Compatible With Agency/Standards Products

UL

Compatible With Approved Standards Products

UL E28476

UL Flammability Rating

UL 94V-0

Glow Wire Rating

Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity

420

Packaging Method

Box & Tray, Tray

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

EU RoHS Directive 2011/65/EU

Compliant

EU ELV Directive 2000/53/EC

Compliant

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 2024 (240)

Candidate List Declared Against: JUNE 2023 (235)

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>

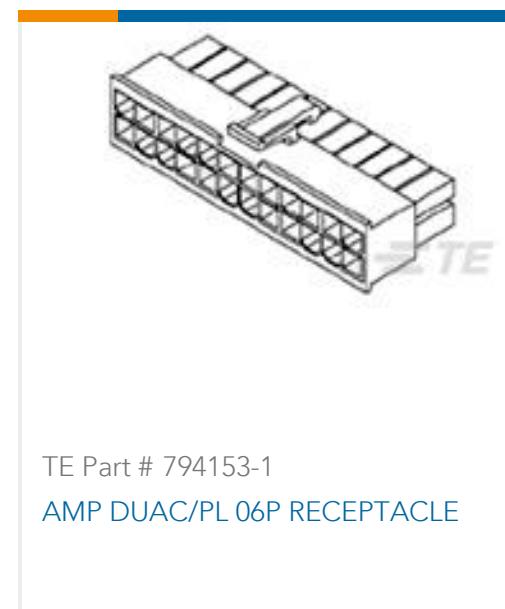
Compatible Parts



TE Part # 1969613-6
6P PM PLUG VAL-U-LOK V0



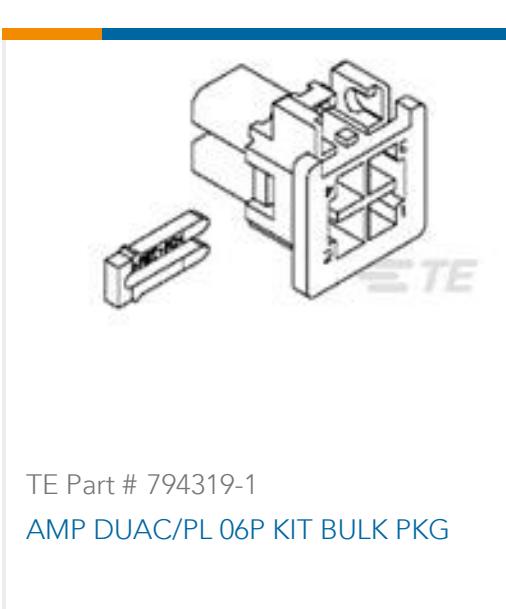
TE Part # 1586019-6
6P RCPT VAL-U-LOK V0



TE Part # 794153-1
AMP DUAC/PL 06P RECEPTACLE



TE Part # 1969612-6
6P FH PLUG VAL-U-LOK V0



TE Part # 794319-1
AMP DUAC/PL 06P KIT BULK PKG

Customers Also Bought



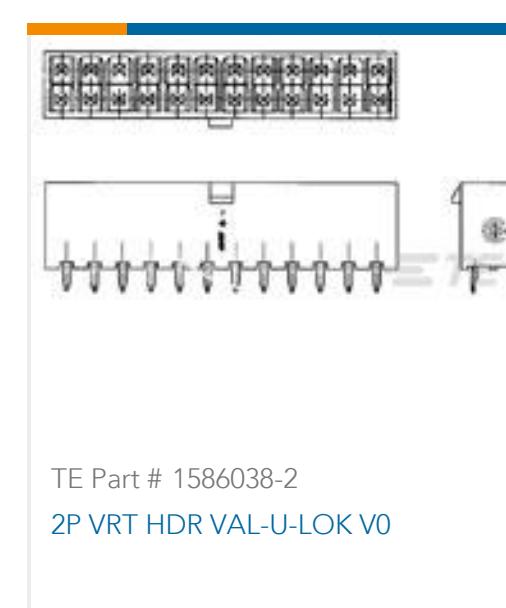
TE Part # 5-1462037-7
IM42JR=IM RELAY 100mW 4.5V BIS



TE Part # 1-1630012-9
HSC150 2R2 5%



TE Part # 1-770875-0
06P MINI UMNL HDR ASSY SN



TE Part # 1586038-2
2P VRT HDR VAL-U-LOK V0



TE Part # 1-2823408-4
14P,2MM,PL HDR,DRV,2.8,0.76AU,TB



TE Part # 1-2314819-4
14P,2MM,B-B,REC,DRV,2.7,SN,TB



TE Part # 2-2176388-3
RQ 1206 16R9 0.1% 10PPM 5K RL



TE Part # 1860990-1
RT78601, RELAY SOCKET PCB 3.5MM



TE Part # 413990-2
STR JACK,SMB,PCB

Documents

Product Drawings

[6P VRT HDR VAL-U-LOK V0](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1586038-6_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1586038-6_C.3d_jgs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1586038-6_C.3d_stp.zip](#)

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