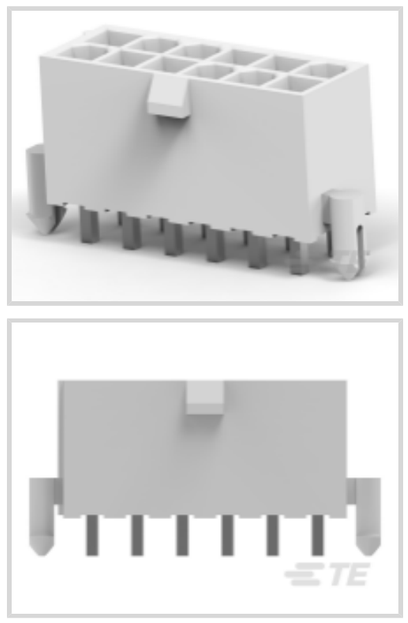
1-2825274-2 ✔ ACTIVE

TE Internal #: 1-2825274-2

PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 4.2 mm [.165 in] Centerline, Fully Shrouded, Tin (Sn), Through Hole - Solder, Power, Natural

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles






PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Wire-to-Board**

Number of Positions: **12**

Centerline (Pitch): **4.2 mm [.165 in]**

Features

Product Type Features

Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Loaded Positions	12
PCB Mount Orientation	Vertical
Number of Positions	12
Number of Rows	2
Number of Power Positions	12

Electrical Characteristics

Operating Voltage	600 VAC

Body Features

Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	.762 µm[30 µin]
PCB Contact Termination Area Plating Material Thickness	2.032 µm[80 µin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Tin (Sn)
Contact Mating Area Plating Material Thickness	2.032 µm[80 µin]
Contact Type	Tab
Contact Current Rating (Max)	9 A
PCB Contact Termination Area Plating Material	Tin

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Retention Type	Locking Tab
Mating Alignment Type	Keyed
PCB Mount Retention Type	Boardlock
PCB Mount Alignment	Without
Mating Retention	With
PCB Mount Retention	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Centerline (Pitch)	4.2 mm[.165 in]
Housing Material	Polyamide

Dimensions

Row-to-Row Spacing	4.2 mm[.165 in]
Connector Width	9.75 mm[.384 in]

PCB Thickness (Recommended)	1.78 mm[.07 in]
Connector Height	12.8 mm[.504 in]
Connector Length	26.4 mm[1.039 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Operation/Application

Circuit Application	Power

Industry Standards

Compatible With Agency/Standards Products	CSA, UL
UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	GWT 750°C (Without Flame)
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	180
Packaging Method	Tray

Product Compliance

For compliance documentation, visit the product page on TE.com>

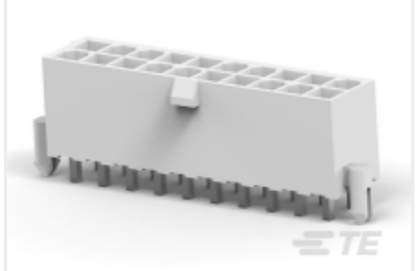
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

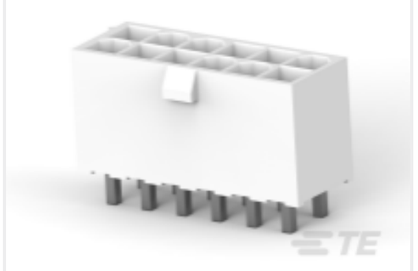
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as

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



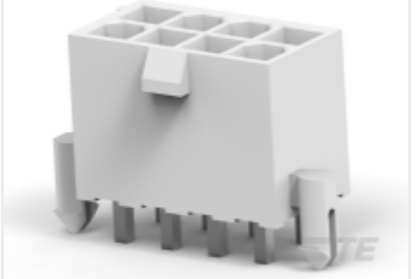
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20P VAL-U-LOK HCS VRTHDR W/PGS GW



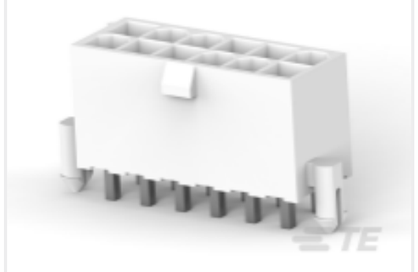
TE Part # 1-2825272-2
12P VERT HDR VAL-U-LOK HCS GW



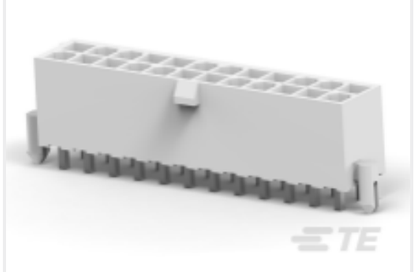
TE Part # 2825274-4
4P VAL-U-LOK HCS VRTHDR W/PGS GW



TE Part # 2825274-8
8P VAL-U-LOK HCS VRTHDR W/PGS GW



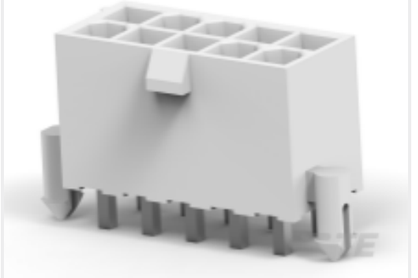
TE Part # 1-2825261-2
12P VAL-U-LOK HCS VRT HDR W/P V0



TE Part # 2-2825274-4
24P VAL-U-LOK HCS VRTHDR W/PGS GW



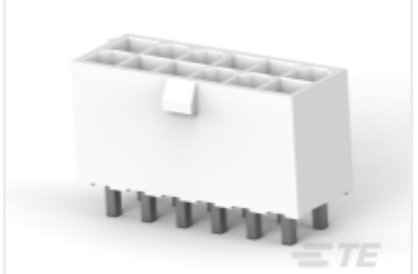
TE Part # 2825274-2
2P VAL-U-LOK HCS VRTHDR W/PGS GW



TE Part # 1-2825274-0
10P VAL-U-LOK HCS VRTHDR W/PGS GW

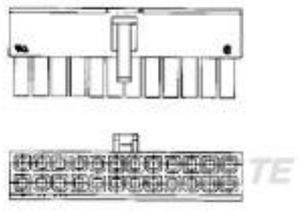


TE Part # 2825274-6
6P VAL-U-LOK HCS VRTHDR W/PGS GW

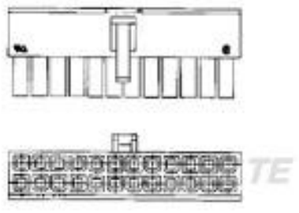


TE Part # 1-2825260-2
12P VRT HDR VAL-U-LOK HCS V0

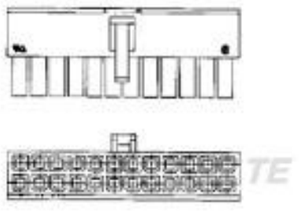
Customers Also Bought



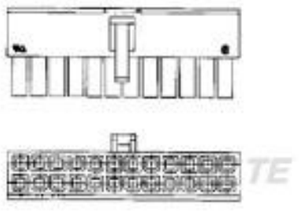
TE Part #794954-4
4P RCPT VAL-U-LOK V2



TE Part #794954-6
6P RCPT VAL-U-LOK V2



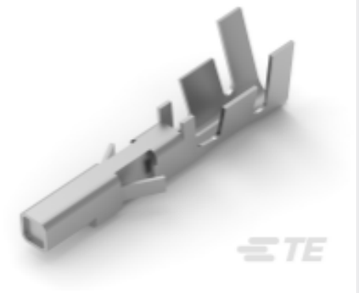
TE Part #1-794954-2
12P RCPT VAL-U-LOK V2



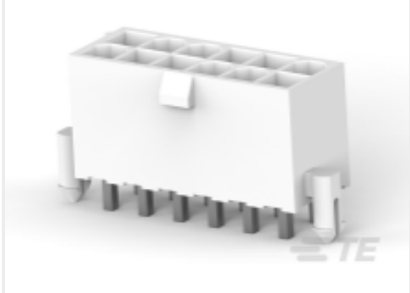
TE Part #1-794954-6
16P RCPT VAL-U-LOK V2



TE Part #2825207-1
VAL-U-LOK SKT HCS SN 16AWG



TE Part #2825209-1
VAL-U-LOK SKT 16AWG HCS SN LP



TE Part #1-2825261-2
12P VAL-U-LOK HCS VRT HDR W/P V0

Documents

Product Drawings

12P VAL-U-LOK HCS VRTHDR W/PGS GW

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2825274-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-2825274-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2825274-2_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

VDE Certificate

English