



TE Internal #: 2-2825261-0
Header, Plug, Wire-to-Board, 20 Position, 4.2 mm [.165 in]
Centerline, Printed Circuit Board, UL 94V-0, Rectangular Power
Connectors
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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: **20**
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	20
PCB Mount Orientation	Vertical
Number of Power Positions	0
Number of Signal Positions	20
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VAC
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Contact Features

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Contact Layout	Inline
Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	13 A
Contact Retention Within Housing	With
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	2.032 μm[80 μin]

Termination Features

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

Mechanical Attachment

Mating Alignment Type	Keyed
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	4.2 mm[.165 in]
Housing Color	White
Housing Material	Nylon GF

Dimensions

Connector Height	12.8 mm[.504 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Product Width	9.8 mm[.386 in]
Product Length	43.2 mm[1.7 in]
Compatible Insulation Diameter Range	1.2 – 3.1 mm[.047 – .122 in]
Wire Size	.12 – 1.4 mm ²
Row-to-Row Spacing	4.2 mm[.165 in]

Usage Conditions

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Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
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Operation/Application

Circuit Application	Power
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Identification Marking

Circuit Identification Feature	With
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Industry Standards

CSA Rating	208567
UL Rating	Recognized
Compatible With Agency/Standards Products	CSA, 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	120
Packaging Method	Box & Tray, 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 2024 (241) Candidate List Declared Against: JUNE 2022 (224) 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	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>

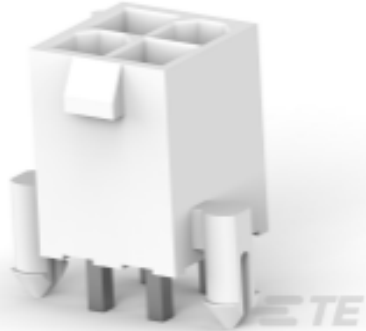
Compatible Parts



TE Part # 2-2825261-4
24P VAL-U-LOK HCS VRT HDR W/P V0



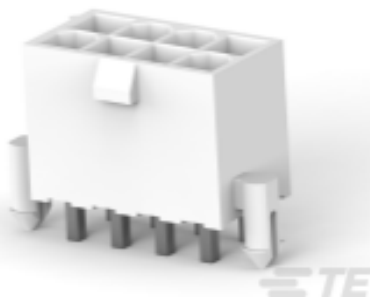
TE Part # 2825261-2
2P VAL-U-LOK HCS VRT HDR W/P V0



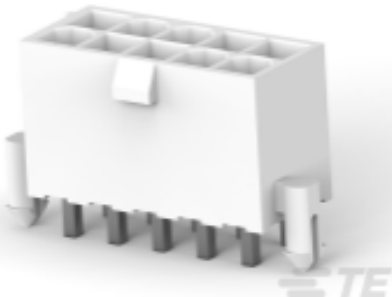
TE Part # 2825261-4
4P VAL-U-LOK HCS VRT HDR W/P V0



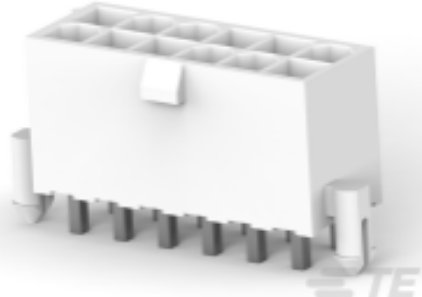
TE Part # 2825261-6
6P VAL-U-LOK HCS VRT HDR W/P V0



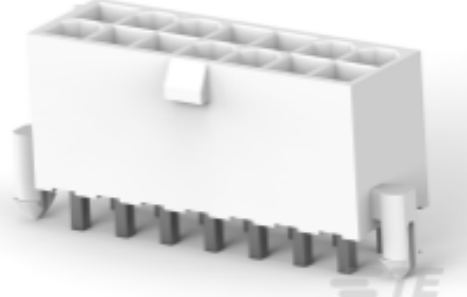
TE Part # 2825261-8
8P VAL-U-LOK HCS VRT HDR W/P V0



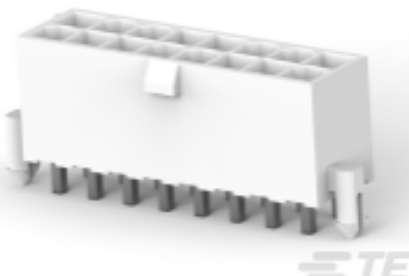
TE Part # 1-2825261-0
10P VAL-U-LOK HCS VRT HDR W/P V0



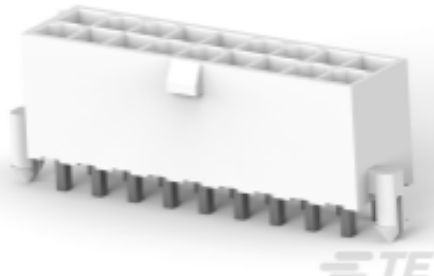
TE Part # 1-2825261-2
12P VAL-U-LOK HCS VRT HDR W/P V0



TE Part # 1-2825261-4
14P VAL-U-LOK HCS VRT HDR W/P V0



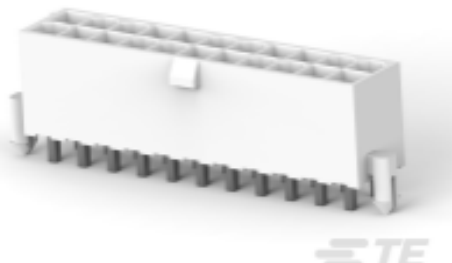
TE Part # 1-2825261-6
16P VAL-U-LOK HCS VRT HDR W/P V0



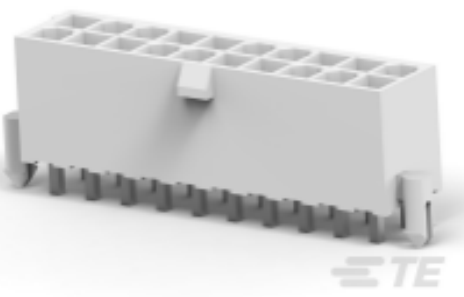
TE Part # 1-2825261-8
18P VAL-U-LOK HCS VRT HDR W/P V0



TE Part # 2-2825260-0
20P VRT HDR VAL-U-LOK HCS V0



TE Part # 2-2825261-2
22P VAL-U-LOK HCS VRT HDR W/P V0



TE Part # 2-2825274-0
20P VAL-U-LOK HCS VRTHDR W/PGS GW

Customers Also Bought



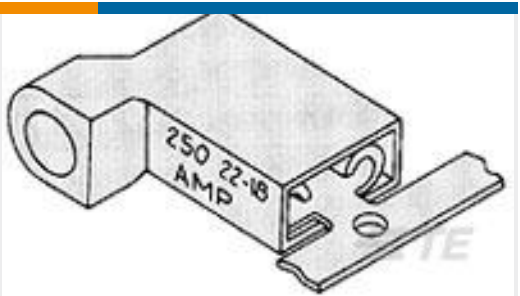
TE Part #2-326859-1
[TERMINAL,PIDG SPD 12-10 6](#)



TE Part #2-2176230-0
[3522 33R 5% 3W](#)



TE Part #1558666-1
[T9GS1L14-5](#)



TE Part #3-520339-2
[ULTRA-FAST 187 ASY REC 16-14 AWG TPBR](#)



TE Part #5787444-1
[HDR ASY,VERT,NO KEY,STR TAIL](#)



TE Part #1-1393194-5
[T77S1D3-12](#)



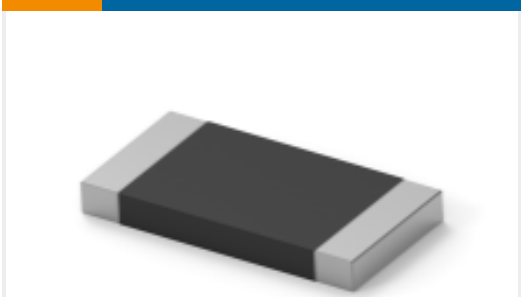
TE Part #2227303-1
[CAGE ASSEMBLY, SFP, .140 SOLDE](#)



TE Part #2-320665-1
[PG SPD 22-16 COMM 22-18 MIL 6](#)



TE Part #1-1437664-7
[NC6-P107-12=NC6 ASSEMBLY](#)



TE Part #2-2176421-1
[TLRP 2512 2.0W R030 1% 25PPM 4K RL](#)

Documents

Product Drawings

[20P VAL-U-LOK HCS VRT HDR W/P V0](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2-2825261-0_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-2825261-0_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-2825261-0_1.3d_stp.zip](#)

English

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Product Specifications



Application Specification

English

Agency Approvals

UL

English