

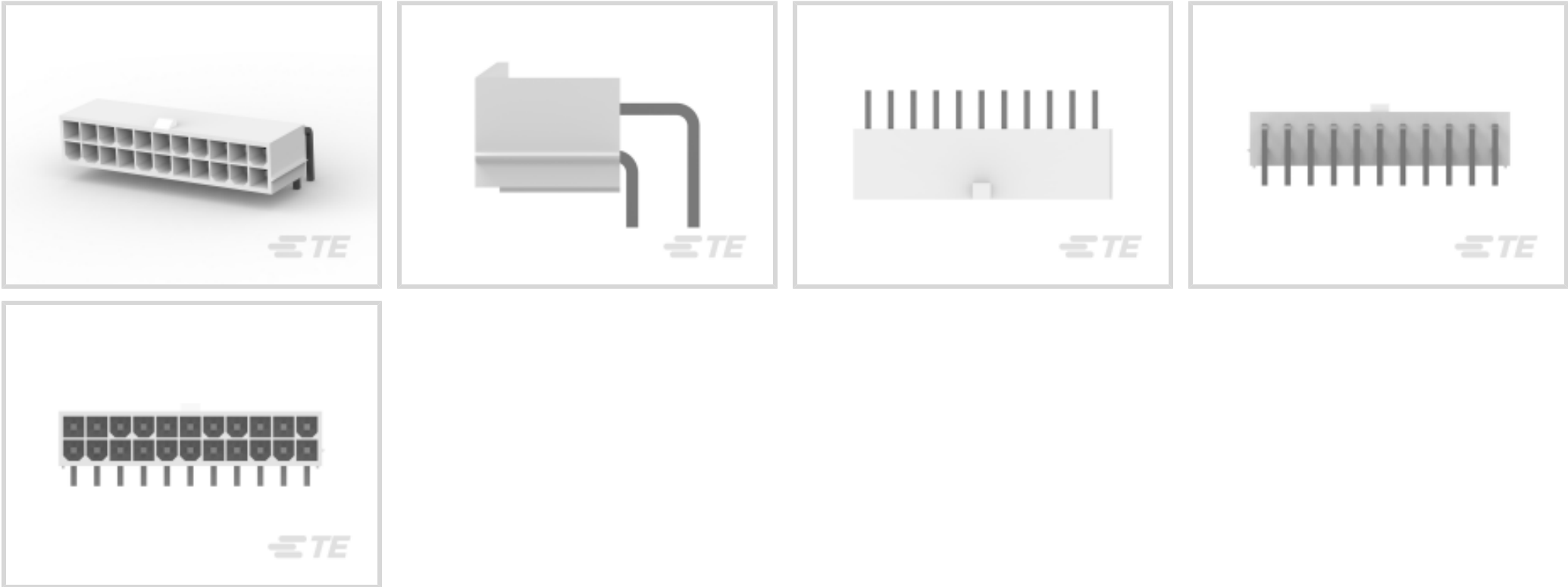


VAL-U-LOK

TE Internal #: 2-1586041-2
PCB Mount Header, Right Angle, Wire-to-Board, 22 Position, 4.2 mm [.165 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, Power, Natural

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**
Connector System: **Wire-to-Board**
Number of Positions: **22**
Number of Rows: **2**
Centerline (Pitch): **4.2 mm [.165 in]**

Features

Product Type Features

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

Configuration Features

Number of Power Positions	22
Number of Loaded Positions	22
Number of Positions	22
Number of Rows	2
PCB Mount Orientation	Right Angle

Electrical Characteristics

Operating Voltage	600 VAC
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Body Features

Primary Product Color	Natural
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Contact Features

Contact Size	1.14mm
PCB Contact Termination Area Plating Material Thickness	2.03 μm[80 μin]
Contact Layout	Matrix
Contact Underplating Material Thickness	.381 μm[15 μin]
Contact Mating Area Plating Material Thickness	2.03 μm[80 μin]
Contact Shape & Form	Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	9 A

Termination Features

Square Termination Post & Tail Dimension	1.14 mm[.045 in]
Termination Post & Tail Length	3.6 mm[.141 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Length	47.4 mm[1.866 in]
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Connector Height	9.8 mm[.386 in]
Connector Width	13 mm[.51 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Row-to-Row Spacing	4.2 mm[.165 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power
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Industry Standards

UL Rating	Recognized
Glow Wire Rating	Standard Part - Not Glow Wire
Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-2

Packaging Features

Packaging Quantity	80
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	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: JUNE 2024 (241) Candidate List Declared Against: JAN 2021 (211) 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 # 2-794954-2
22P RCPT VAL-U-LOK V2

TE Part # 2-1969599-2
22P PM PLUG VAL-U-LOK V2

Customers Also Bought

TE Part #8-1622824-2
RL73H 3A R22 1% 1K RL

TE Part #2-1761603-3
IDC LOW PRO HDR 10P VERT BLUE

TE Part #2-1586043-2
22P VAL-U-LOK R/A HDR SCRMT V2

TE Part #3-2176337-3
CRGCQ 0402 4K7 1%

TE Part #1612618-1
DDR SODIMM SOCKET 200POS SEMI-

TE Part #1-1393788-6
V23079A1005B301

TE Part #1-1735413-1
Assembly Slimline SATA Receptacle
7P+6P

TE Part #3-2176093-8
RP 2A 0.25W 23K2 0.1% 25PPM 1K RL

Documents

Product Drawings
22P VAL-U-LOK R/A HDR V2

English

CAD Files
Customer View Model



[ENG_CVM_2-1586041-2_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_2-1586041-2_B.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_2-1586041-2_B.2d_dxf.zip](#)

English

[3D PDF](#)

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