



TE Internal #: 2-2825261-0
PCB Mount Header, Vertical, Wire-to-Board, 20 Position, 4.2 mm [.165 in] Centerline, Fully Shrouded, Tin (Sn), Through Hole - Solder, Power, Natural

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
PCB Mount Orientation: **Vertical**
Connector System: **Wire-to-Board**
Number of Positions: **20**
Number of Rows: **2**

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	20
Number of Power Positions	20
PCB Mount Orientation	Vertical
Number of Positions	20
Number of Rows	2

Electrical Characteristics

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Operating Voltage	600 VAC
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Body Features

Primary Product Color	Natural
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Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	.762 μm[30 μin]
Contact Mating Area Plating Material Thickness	2.03 μm[80 μin]
PCB Contact Termination Area Plating Material Thickness	2.03 μm[80 μin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Tab
Contact Current Rating (Max)	9 A

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

Housing Features

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

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	43.2 mm[1.7 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

Compatible With Agency/Standards Products	CSA, UL
UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	120
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: JAN 2025 (247) 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 # 2-2825260-0
20P VRT HDR VAL-U-LOK HCS V0

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

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

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

TE Part # 2-2825261-2
22P 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 # 1-2825261-2
12P 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 # 2825261-6
6P 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 # 1-2825261-6
16P VAL-U-LOK HCS VRT HDR W/P V0

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

Customers Also Bought



TE Part #2227303-1
CAGE ASSEMBLY, SFP, .140 SOLDE

TE Part #1-1437664-7
NC6-P107-12=NC6 ASSEMBLY

TE Part #1-1393194-5
T77S1D3-12

TE Part #350428-4
02P UMN L PIN HDR ASSY NATL AU

TE Part #2-320665-1
PG SPD 22-16 COMM 22-18 MIL 6

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

TE Part #1558666-1
T9GS1L14-5

TE Part #2-2176230-0
3522 33R 5% 3W

TE Part #3-647609-4
04P MTA100 HDR ASSY F/L LF

TE Part #2-326859-1
TERMINAL,PIDG SPD 12-10 6

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