



TE Internal #: 1-2825261-2

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

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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
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Contact Underplating Material Thickness	.762 $\mu$ m[30 $\mu$ in]
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PCB Contact Termination Area Plating Material Thickness	2.032 $\mu$ m[80 $\mu$ in]
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Contact Layout	Matrix
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Contact Base Material	Copper Alloy
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Contact Mating Area Plating Material	Tin (Sn)
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Contact Mating Area Plating Material Thickness	2.032 $\mu$ m[80 $\mu$ in]
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Contact Type	Tab
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Contact Current Rating (Max)	9 A
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PCB Contact Termination Area Plating Material	Tin
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### Termination Features

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

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

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

Row-to-Row Spacing	4.2 mm[.165 in]
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Connector Width	9.75 mm[.384 in]
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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
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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	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	有害物质含量符合标准要求 No Restricted Substance(s) 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



## Customers Also Bought



## Documents

### Product Drawings

[12P VAL-U-LOK HCS VRT HDR W/P V0](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2825261-2\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2825261-2\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2825261-2\\_A.3d\\_stp.zip](#)

English

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**Product Specifications**

**Application Specification**

English

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**Agency Approvals**

**VDE Certificate**

English