

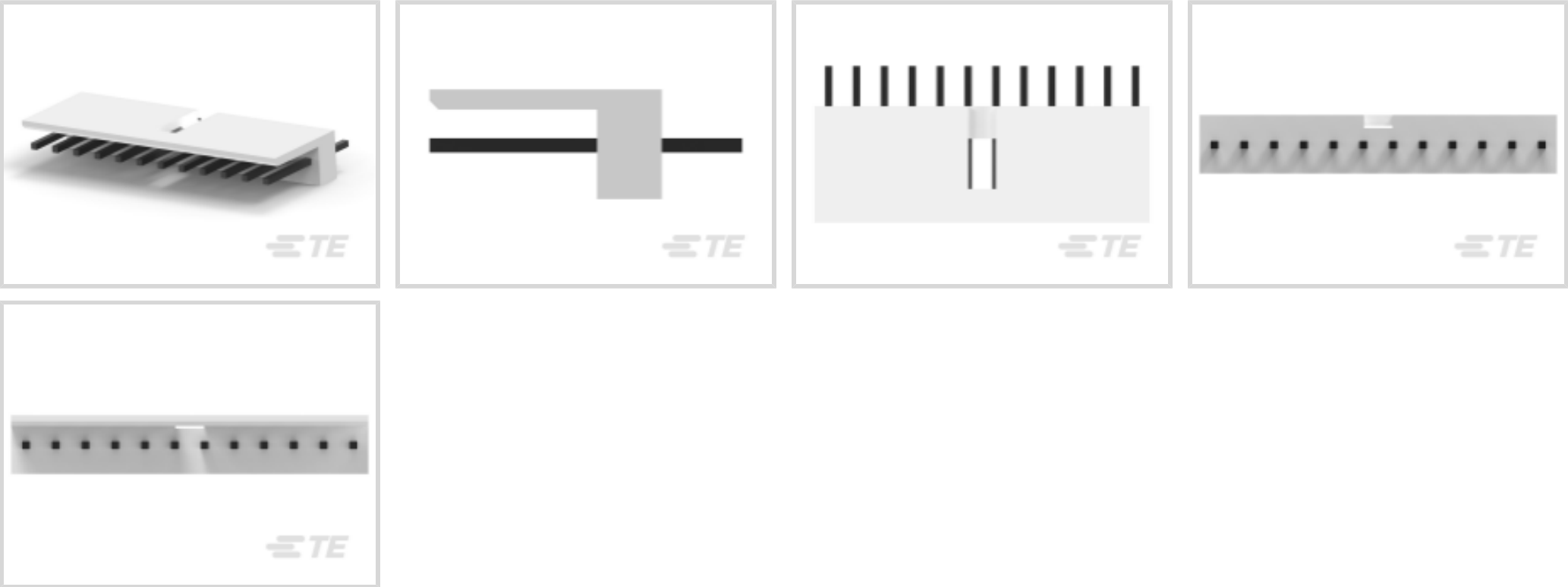


TE Internal #: 1-171825-2

PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 2.5 mm [.098 in] Centerline, Partially Shrouded, Tin (Sn), Through Hole - Solder, Signal

[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**

Number of Rows: **1**

Features

Product Type Features

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

Configuration Features

PCB Mount Orientation	Vertical
Number of Positions	12
Number of Rows	1

Electrical Characteristics

Operating Voltage	250 VDC
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Body Features

Connector Profile	Low
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Primary Product Color

Natural

Contact Features

Contact Mating Area Plating Material Thickness	.8 µm[31.49 µin]
Mating Square Post Dimension	.64 mm[.025 in]
PCB Contact Termination Area Plating Material Thickness	.8 µm
Contact Shape & Form	Square
Contact Mating Area Length	7.5 mm[.295 in]
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Pin
Contact Current Rating (Max)	5 A

Termination Features

Termination Post & Tail Length	3.6 mm[.142 in]
Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Polarized Lock
Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Retention Type	Retention Solder Tails
PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Housing Material	6/6 Nylon
Centerline (Pitch)	2.5 mm[.098 in]

Dimensions

PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	10.4 mm[.409 in]



Connector Length	30 mm[1.181 in]
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Usage Conditions

Operating Temperature Range	-20 – 95 °C[-4 – 203 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

Compatible With Agency/Standards Products	UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	250
Packaging Method	Bag, Box

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 1-174810-2
EI V 12P IN TUBE



TE Part # 1-171822-2
EIS REC. HSG 12P-NATURAL



TE Part # 1-172142-2
EIS LOW PROFILE HSG 12P NATURAL

Customers Also Bought



TE Part #42806-2
250 FASTON REC 18-14 AWG TPBR



TE Part #171825-2
2 POS EIS POST HDR



TE Part #171825-3
POST HEADER ASSY EI SRS 3POS



TE Part #171825-5
5 POS EIS POST HDR



TE Part #171825-6
POST HDR ASSY VERT AMP EI CONN



TE Part #171825-9
9P EIS POST HDR VERTICAL



TE Part #171826-6
POST HEADER ASSY HORIZ EI



TE Part #CAT-D9934-A75E
Header Assembly: Wire-to-Board, 15A, gold or tin plated



TE Part #316517-2
DYNAMIC 3500 HDR ASSY 20P V

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-171825-2_Y2.2d_dxf.zip

English

Customer View Model



[ENG_CVM_CVM_1-171825-2_Y2.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-171825-2_Y2.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[1-1773972-5_EIS_Connectors_Brochure](#)

English

Product Specifications

[Crimping of AMP EI Series Connector Contacts](#)

Japanese

Application Specification

Japanese

Agency Approvals

[Agency Approval Document](#)

English