



RAST

TE Internal #: 1-1971817-9

PCB Mount Header, Vertical, Wire-to-Board, 9 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, Signal, Natural

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Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Wire-to-Board**

Number of Positions: **9**

Number of Rows: **1**

Centerline (Pitch): **2.5 mm [.098 in]**

PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Positions   | 9        |
| Number of Rows        | 1        |
| PCB Mount Orientation | Vertical |

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 50 VAC |
|-------------------|--------|

Body Features

|                       |         |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|



Contact Features

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| PCB Contact Termination Area Plating Material Thickness | 3.8 μm[149.6 μin] |
| Mating Tab Width                                        | 1.5 mm[.059 in]   |
| Mating Tab Thickness                                    | .6 mm[.024 in]    |
| Contact Mating Area Plating Material Thickness          | 1.27 μm[50.8 μin] |
| PCB Contact Termination Area Plating Material Finish    | Matte             |
| Contact Shape & Form                                    | Square            |
| Contact Mating Area Plating Material Finish             | Matte             |
| PCB Contact Termination Area Plating Material           | Tin               |
| Contact Base Material                                   | Copper Alloy      |
| Contact Mating Area Plating Material                    | Tin               |
| Contact Type                                            | Tab               |
| Contact Current Rating (Max)                            | 2 A               |

Termination Features

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Rectangular Termination Post & Tail Thickness | .6 mm[.024 in]        |
| Rectangular Termination Post & Tail Width     | .65 mm[.026 in]       |
| Termination Post & Tail Length                | 2.9 mm[.11 in]        |
| Termination Method to Printed Circuit Board   | Through Hole - Solder |

Mechanical Attachment

|                         |                     |
|-------------------------|---------------------|
| Mating Alignment Type   | Keyed, Polarization |
| Mating Retention        | With                |
| Mating Retention Type   | Latch               |
| Connector Mounting Type | Board Mount         |
| Mating Alignment        | With                |
| PCB Mount Alignment     | With                |
| PCB Mount Retention     | Without             |

Housing Features

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

Dimensions

|                  |                 |
|------------------|-----------------|
| Connector Length | 25.1 mm[.98 in] |
| Connector Height | 15.5 mm[.61 in] |



Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 120 °C[-40 – 248 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                |             |
|----------------|-------------|
| Packaging Type | Box, Carton |
|----------------|-------------|

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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                  |
| 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



Documents

Product Drawings

9P, RAST 2.5 Tab Header, Ex- Locking, THV

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1971817-9\_B.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1971817-9\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1971817-9\_B.3d\_stp.zip

English

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

Datasheets & Catalog Pages

7-1773465-3\_RAST2.5\_Flyer

English

Product Specifications

Product Specification

English

Agency Approvals

VDE Certificate

English