



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: **2**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Mixed & Hybrid Header             | No                    |
| 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

|                                  |              |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
| Number of Columns                | 6            |
| Number of Loaded Positions       | 12           |
| Number of Power Positions        | 12           |
| PCB Mount Orientation            | Vertical     |



|                     |    |
|---------------------|----|
| Number of Positions | 12 |
| Number of Rows      | 2  |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VDC |
|-------------------|---------|

Body Features

|                                |       |
|--------------------------------|-------|
| PCB Retention Feature Material | Nylon |
| Primary Product Color          | White |

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| Mating Pin Diameter                                     | 1 mm[.039 in]                 |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin]               |
| Contact Size                                            | 1mm                           |
| Contact Mating Area Plating Material Thickness          | 3.81 – 8.89 µm[150 – 350 µin] |
| Contact Base Material                                   | Brass                         |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Mating Area Plating Material Finish             | Matte                         |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| Contact Shape & Form                                    | Round                         |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 8.89 µm[150 – 350 µin] |
| Contact Layout                                          | Matrix                        |
| Contact Mating Area Plating Material                    | Tin (Sn)                      |
| Contact Type                                            | Pin                           |
| Contact Current Rating (Max)                            | 9.5 A                         |

Termination Features

|                                  |                       |
|----------------------------------|-----------------------|
| Termination Post & Tail Diameter | 1 mm[.039 in]         |
| Termination Post & Tail Length   | 3.69 mm[.145 in]      |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

|                          |                 |
|--------------------------|-----------------|
| Panel Mount Feature      | Without         |
| Mating Alignment Type    | Chamfered Edges |
| PCB Mount Retention Type | Boardlock       |
| Mating Retention Type    | Locking Tab     |
|                          |                 |



|                         |             |
|-------------------------|-------------|
| Mating Retention        | With        |
| PCB Mount Retention     | With        |
| PCB Mount Alignment     | Without     |
| Connector Mounting Type | Board Mount |
| Mating Alignment        | With        |

Housing Features

|                       |                  |
|-----------------------|------------------|
| Mating Entry Location | Top              |
| Housing Material      | Nylon            |
| Centerline (Pitch)    | 4.14 mm[.162 in] |

Dimensions

|                             |                    |
|-----------------------------|--------------------|
| Row-to-Row Spacing          | 4.14 mm[.162 in]   |
| Connector Width             | 11.88 mm[.468 in]  |
| Connector Height            | 13.49 mm[.531 in]  |
| Connector Length            | 26.39 mm[1.039 in] |
| PCB Thickness (Recommended) | 1.57 mm[.062 in]   |
| Profile Height from PCB     | 14.25 mm[.56 in]   |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature (Max) | 105 °C[221 °F]             |
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |

Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

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 | 200 |
| Packaging Method   | Bag |

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)<br>Candidate List Declared Against: JAN 2025 (247)<br>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 # 794198-1  
12P MINI UMN2 PLUG HSG DBLROW



TE Part # 770581-1  
12P MINI UMN1 PLUG HSG

Also in the Series | [Mini-Universal MATE-N-LOK](#)



Connector Caps & Covers(2)

Connector Contacts(89)

Connector Hardware(4)

Connector Seals & Cavity Plugs(17)

Connector Strain Relief(2)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(93)

Rectangular Power Connectors(196)

Wire-to-Board Headers & Receptacles (93)

Customers Also Bought

TE Part #1-770872-0  
02P MINI UMNL HDR ASSY SN

TE Part #66598-9  
III+ SKT,18-14,TIN ,STRIP

TE Part #1879234-6  
SMF5 820R 5%

TE Part #3-794627-4  
04P MICRO MNL ASSY,RA ,SMT, LF

TE Part #2-1445050-3  
MICRO MNL HDR ASSY S/ROW LF

TE Part #207121-8  
METRIMATE PIN HEADER ASSY,36P

TE Part #CAT-AM74-UN384H  
AMP-LATCH UNIVERSAL HEADERS

TE Part #2176398-6  
3502 22K 1%



Documents

Product Drawings

12P MINI UMNL DBL ROW HDR ASSY

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-770621-0\_M.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-770621-0\_M.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-770621-0\_M.3d\_stp.zip

English

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

Datasheets & Catalog Pages

SOFT\_SHELL\_PIN\_AND\_SOCKET\_CONNECTORS\_CATALOG

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

UL

English