



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**  
PCB Mount Orientation: **Right Angle**  
Connector System: **Board-to-Board**  
Number of Positions: **60**  
Number of Rows: **2**

Features

Product Type Features

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

Configuration Features

|                       |             |
|-----------------------|-------------|
| Stackable             | No          |
| PCB Mount Orientation | Right Angle |
| Number of Positions   | 60          |
| Number of Rows        | 2           |

Electrical Characteristics

|                                       |         |
|---------------------------------------|---------|
| Dielectric Withstanding Voltage (Max) | 600 VAC |
|---------------------------------------|---------|

Body Features

|                       |      |
|-----------------------|------|
| Primary Product Color | Gray |
|-----------------------|------|

Contact Features

|                              |                 |
|------------------------------|-----------------|
| Contact Layout               | Staggered       |
| Mating Square Post Dimension | .46 mm[.018 in] |



|                                                      |                |
|------------------------------------------------------|----------------|
| PCB Contact Termination Area Plating Material Finish | Matte          |
| PCB Contact Termination Area Plating Material        | Tin-Lead       |
| Contact Base Material                                | Brass          |
| Contact Mating Area Plating Material                 | Gold           |
| Contact Mating Area Plating Material Thickness       | .76 µm[30 µin] |
| Contact Type                                         | Pin            |
| Contact Current Rating (Max)                         | 1.5 A          |

Termination Features

|                                               |                                                                    |
|-----------------------------------------------|--------------------------------------------------------------------|
| Rectangular Termination Post & Tail Thickness | .23 mm[.009 in]                                                    |
| Rectangular Termination Post & Tail Width     | .46 mm[.018 in]                                                    |
| Termination Post & Tail Length                | 2.79 mm, 4.69 mm, 6.6 mm, 8.5 mm[.11 in][.185 in][.26 in][.335 in] |
| Termination Method to Printed Circuit Board   | Through Hole - Solder                                              |

Mechanical Attachment

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

Housing Features

|                    |                              |
|--------------------|------------------------------|
| Centerline (Pitch) | 1.27 mm[.05 in]              |
| Housing Material   | LCP (Liquid Crystal Polymer) |

Dimensions

|                             |                             |
|-----------------------------|-----------------------------|
| Connector Height            | 13.21 mm[.52 in]            |
| Row-to-Row Spacing          | 3.81 mm[.15 in]             |
| Stack Height                | 15.24 mm[.6 in]             |
| PCB Thickness (Recommended) | .05 – .07 mm[.054 – .07 in] |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 125 °C[-85 – 257 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                          |                |
|--------------------------|----------------|
| Assembly Process Feature | None           |
| Circuit Application      | Power & Signal |



Industry Standards

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

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 6       |
| Packaging Type     | Package |

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: JUNE 2022 (224)<br>Candidate List Declared Against: JAN 2019 (197)<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





Documents

Product Drawings

MINI-BX PIN HDR ASY 60 POS RA

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_530733-3\_T.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_530733-3\_T.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_530733-3\_T.3d\_stp.zip

English

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Datasheets & Catalog Pages

Products for Aerospace and Defense

English

Instruction Sheets

Instruction Sheet (U.S.)

English

AMP 501 SERIES MINI-BOX CONNECTORS

English