



Connectors > PCB Connectors > PCB Headers & Receptacles > AMP HPI 2.0 mm Headers



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **6**

Number of Rows: **1**

[All AMP HPI 2.0 mm Headers \(183\)](#)

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   | 6        |
| Number of Rows        | 1        |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VDC |
|-------------------|---------|

Body Features



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

Contact Features

|                                                      |                  |
|------------------------------------------------------|------------------|
| PCB Contact Termination Area Plating Material Finish | Bright           |
| Contact Mating Area Plating Material Thickness       | 2.032 µm[80 µin] |
| Mating Square Post Dimension                         | .5 mm[.02 in]    |
| Contact Shape & Form                                 | Square           |
| Contact Mating Area Length                           | 3.35 mm[.131 in] |
| Contact Base Material                                | Brass            |
| PCB Contact Termination Area Plating Material        | Tin              |
| Contact Mating Area Plating Material Finish          | Bright           |
| Contact Mating Area Plating Material                 | Tin (Sn)         |
| Contact Type                                         | Pin              |
| Contact Current Rating (Max)                         | 3 A              |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Terminations per Post (Max)              | 3                     |
| Termination Post & Tail Length           | 3.4 mm[.134 in]       |
| Square Termination Post & Tail Dimension | .5 mm[.02 in]         |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                    |               |
|--------------------|---------------|
| Housing Material   | Nylon 66 GF   |
| Centerline (Pitch) | 2 mm[.079 in] |

Dimensions

|                             |                            |
|-----------------------------|----------------------------|
| Connector Width             | 4.7 mm[.185 in]            |
| PCB Thickness (Recommended) | 1 – 1.6 mm[.039 – .063 in] |
|                             |                            |



|                  |                  |
|------------------|------------------|
| Connector Height | 6.05 mm[.238 in] |
| Connector Length | 14 mm[.551 in]   |

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -25 – 85 °C[-13 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

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

Industry Standards

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

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 300 |
| 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                   | Out of Scope                                                                                                                  |
| 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 240°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 # CAT-H857-H817220  
AMP HPI 2.0 mm Receptacle Housings

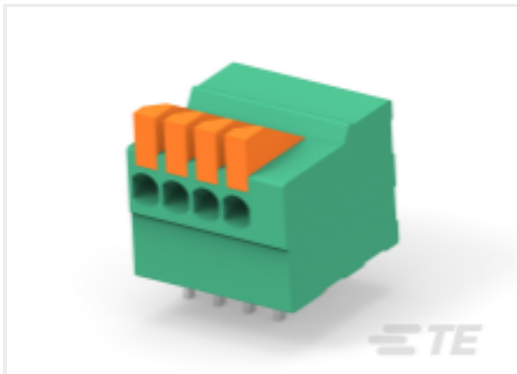
## Customers Also Bought



TE Part #3-1879524-1  
CRGH2512 1% 221R 2W



TE Part #CAT-H857-H34220  
AMP HPI 2.0 mm Headers



TE Part #1-2834016-4  
4POS 2.54MM SES CONN.



TE Part #440129-6  
2.0MM,HSG,6POS

## Documents

Product Drawings

2.0MM,HDR,6POS,VERTICAL

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_440054-6\_F4.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_440054-6\_F4.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_440054-6\_F4.3d\_stp.zip

English

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

Datasheets & Catalog Pages

HPI Connectors QRG

English

Product Specifications

Application Specification



English

Agency Approvals

UL Report

English

UL Report

English