



Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Wire-to-Board**  
Number of Positions: **6**  
Number of Rows: **1**  
Centerline (Pitch): **5 mm [ .197 in ]**  
PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Number of Columns                | 6            |
| Number of Loaded Positions       | 6            |
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions              | 6            |
| Number of Rows                   | 1            |
| PCB Mount Orientation            | Vertical     |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VAC |
|-------------------|---------|

Body Features



|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| Contact Layout                                          | In-line           |
| PCB Contact Termination Area Plating Material Thickness | 3.81 μm[150 μin]  |
| Mating Pin Diameter                                     | 1.75 mm[.069 in]  |
| Contact Underplating Material Thickness                 | 1.27 μm[50 μin]   |
| Contact Mating Area Plating Material Thickness          | .76 μm[29.92 μin] |
| PCB Contact Termination Area Plating Material Finish    | Matte             |
| Contact Mating Area Plating Material Finish             | Bright            |
| Contact Underplating Material                           | Nickel            |
| PCB Contact Termination Area Plating Material           | Tin               |
| Contact Mating Area Plating Material                    | Gold              |
| Contact Type                                            | Socket            |
| Contact Current Rating (Max)                            | 7.5 A             |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Round Termination Post & Tail Diameter      | .99 mm[.039 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                    |               |
|--------------------|---------------|
| Housing Material   | PA 66         |
| Centerline (Pitch) | 5 mm[.197 in] |

Dimensions

|                  |                    |
|------------------|--------------------|
| Connector Length | 51.59 mm[2.031 in] |
| Connector Height | 11 mm[.433 in]     |

Usage Conditions



|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 130 °C[-67 – 266 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

Industry Standards

|                        |              |
|------------------------|--------------|
| Agency/Standard        | CSA, UL, VDE |
| UL Flammability Rating | UL 94V-0     |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 75   |
| Packaging Type     | Tray |

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: JAN 2022 (223)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                           |
| 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 # 207376-1  
HSG,RECEPT 6 POSN,METRIMATE

Also in the Series

AMP Metrimate

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(83)

Rectangular Boots & Strain Relief(5)

Rectangular Connector Hardware(3)

Rectangular Connector Housings(35)

Rectangular Connector Keying Plugs(1)

Rectangular Contact Inserts(4)

Rectangular Power Connectors(2)

Standard Rectangular Connectors(5)

Customers Also Bought

TE Part #1879011-1  
SMD Power Resistor: 7 Watt, 200-2M Ohm

TE Part #770262-3  
06P UMNL SOK HDR ASSY 94VO LF

TE Part #8-1676481-5  
CPF 0603 27K 0.1% 25PPM 1K RL

TE Part #1623893-2  
416M 1K



Documents

Product Drawings

SKT HDR ASSY,6P,MMATE LF

English

CAD Files

Customer View Model

ENG\_CVM\_207611-7\_J.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_207611-7\_J.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_207611-7\_J.2d\_dxf.zip

English

3D PDF

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_207611-7\_AA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_207611-7\_AA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_207611-7\_AA.3d\_stp.zip

English

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Datasheets & Catalog Pages

METRIMATE\_PIN\_SOCKET\_CATALOG

English

Product Specifications

Application Specification

English



METRIMATE Self-Locking Connectors

Japanese

Application Specification

Japanese

Product Environmental Compliance

TE Material Declaration

English

MD\_207611-7\_11102017627\_dmtec

English

MD\_207611-7\_11102017627\_dmtec

English

Agency Approvals

CSA Certificate

English