

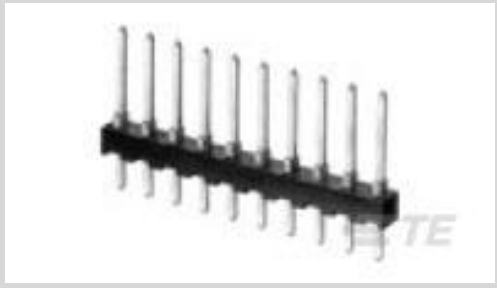
TE Internal #: 87221-5

PCB Mount Header, Vertical, Board-to-Board, 6 Position, 3.81 mm [.15 in] Centerline, Unshrouded, Gold (Au), Through Hole - Solder, AMPMODU Headers

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **6**

Number of Rows: **1**

Features

Product Type Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
| Board-to-Board Configuration     | Parallel     |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 6            |
| Number of Rows                   | 1            |

Electrical Characteristics

|                                       |          |
|---------------------------------------|----------|
| Insulation Resistance                 | 5000 MΩ  |
| Dielectric Withstanding Voltage (Max) | 750 Vrms |

Body Features

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

Contact Features



|                                                |                 |
|------------------------------------------------|-----------------|
| Contact Underplating Material                  | Nickel          |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin]  |
| Mating Square Post Dimension                   | .64 mm[.025 in] |
|                                                | 50 µin          |
| Contact Shape & Form                           | Square          |
| Contact Base Material                          | Phosphor Bronze |
| PCB Contact Termination Area Plating Material  | Gold Flash      |
| Contact Mating Area Plating Material           | Gold (Au)       |
| Contact Type                                   | Pin             |
| Contact Current Rating (Max)                   | 5 A             |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 3.18 mm[.125 in]      |
| Square Termination Post & Tail Dimension | .64 mm[.025 in]       |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

|                    |                 |
|--------------------|-----------------|
| Housing Material   | Thermoplastic   |
| Centerline (Pitch) | 3.81 mm[.15 in] |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
|-----------------------------|------------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

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

Industry Standards

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

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 100 |
|--------------------|-----|



|                  |      |
|------------------|------|
| Packaging Method | 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: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.                                                                        |
| 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

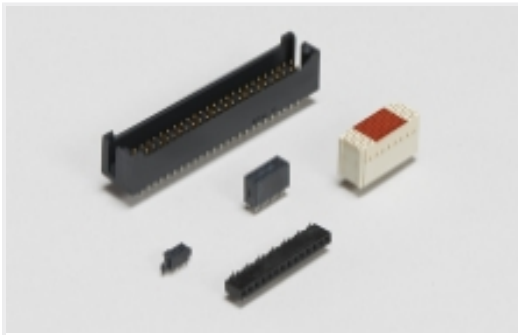


Also in the Series | AMPMODU Headers





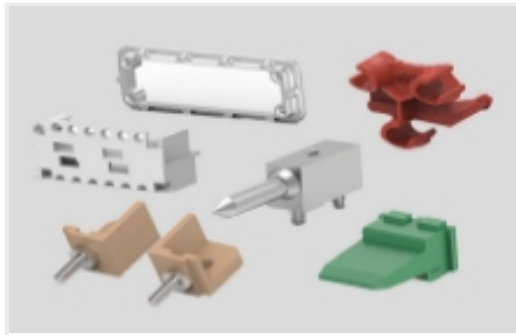
Automotive Headers(1)



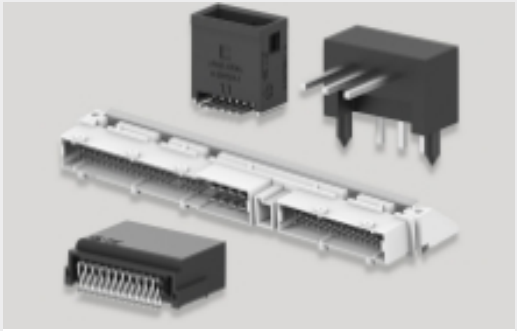
Board-to-Board Headers & Receptacles(1576)



Connector Contacts(47)



Connector Hardware(1)



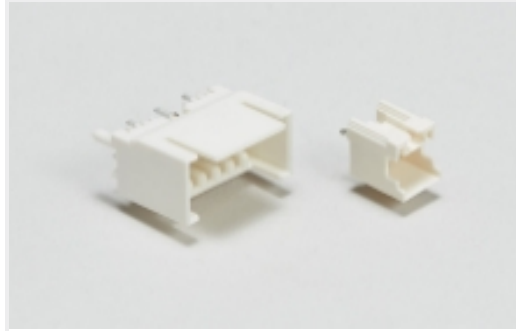
PCB Headers & Receptacles(1621)



Rectangular Power Connectors(43)



Wire-to-Board Connector Assemblies & Housings(5)

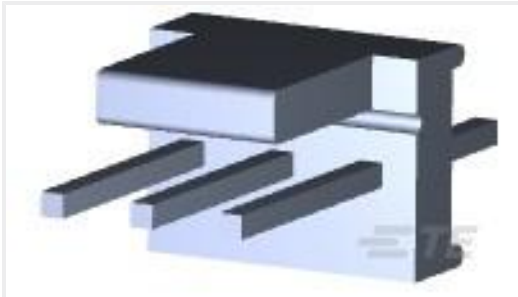


Wire-to-Board Headers & Receptacles (114)

Customers Also Bought



TE Part #171508-1  
PIDG RING UL 22-16



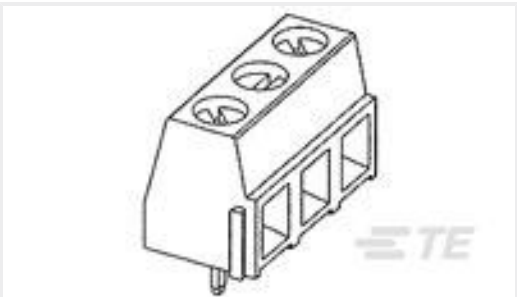
TE Part #640454-3  
03P MTA100 HDR ASSY SQ STR POL



TE Part #2330274-3  
SSRDC-200D40 = Hokey Puck,40A, 200V DC



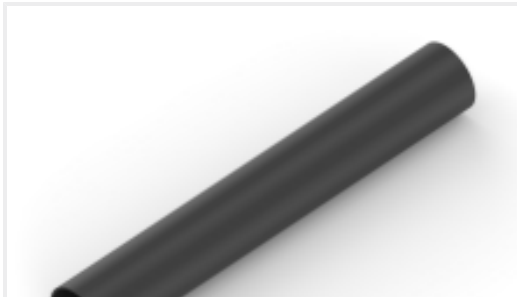
TE Part #T4143012041-000  
M12,FRONT MOUNTING,FEMALE,A CODE,4P



TE Part #282836-7  
TERMI-BLOK PCB MOUNT 90 7P.



TE Part #3-6609107-1  
PS0SSSS6A=C1075



TE Part #CAT-HST-SWFRX4  
SWFR-X4 Heat Shrink Tubing



TE Part #63391-1  
093 FASTON TAB REC 22-18 AWG TPBR

Documents

Product Drawings

06 MODII HDR SRST UNSHRD .150

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_87221-5\_M\_c-87221-5-m.2d\_dxf.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_87221-5\\_M\\_c-87221-5-m.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_87221-5\\_M\\_c-87221-5-m.3d\\_stp.zip](#)

English

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

Agency Approvals

[UL](#)

English