

5-102203-9 ✓ ACTIVE

AMPMODU | AMPMODU Headers

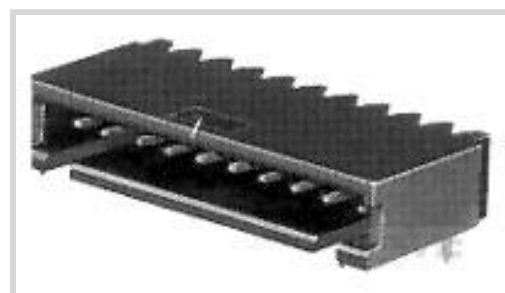
TE Internal #: 5-102203-9

PCB Mount Header, Right Angle, Board-to-Board, 12 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, AMPMODU Headers

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Features

Other

EU RoHS Compliance Compliant

EU ELV Compliance Compliant

Product Type Features

PCB Connector Assembly Type PCB Mount Header

Connector System Board-to-Board

Header Type Fully Shrouded

Connector & Contact Terminates To Printed Circuit Board

Configuration Features

Connector Contact Load Condition Fully Loaded

PCB Mount Orientation Right Angle

Number of Positions 12

Number of Rows 1

Electrical Characteristics

Insulation Resistance 5000 MΩ

Dielectric Withstanding Voltage (Max) 750 Vrms

Body Features

Connector Profile Standard

Primary Product Color Black



Contact Features

| | |
|---|---|
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Mating Area Plating Material Thickness | .381 μm [15 μin] |
| Mating Square Post Dimension | .64 mm[.025 in] |
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 μm [100 – 200 μin] |
| Contact Shape & Form | Square |
| Contact Base Material | Phosphor Bronze |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material | Gold |
| Contact Type | Pin |
| Contact Current Rating (Max) | 3 A |

Termination Features

| | |
|--|-----------------------|
| Termination Post & Tail Length | 2.79 mm[.11 in] |
| Square Termination Post & Tail Dimension | .64 mm[.025 in] |
| Termination Method to PCB | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

| | |
|--------------------|----------------|
| Housing Material | Thermoplastic |
| Centerline (Pitch) | 2.54 mm[.1 in] |

Dimensions

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|-----------------------------|-----------------|
| Row-to-Row Spacing | 2.54 mm[.1 in] |
| PCB Thickness (Recommended) | 1.4 mm[.055 in] |

Usage Conditions

| | |
|-----------------------------|--|
| Housing Temperature Rating | Standard |
| Operating Temperature Range | -65 – 105 $^{\circ}\text{C}$ [-85 – 221 $^{\circ}\text{F}$] |

Operation/Application



| | |
|------------------------|----------------|
| Solder Process Feature | Board Standoff |
|------------------------|----------------|

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

Industry Standards

| | |
|---|-----|
| Compatible With Agency/Standards Products | CSA |
|---|-----|

| | |
|---|-----------------------|
| Compatible With Approved Standards Products | UL E28476, CSA LR7189 |
|---|-----------------------|

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

Packaging Features

| | |
|--------------------|----|
| Packaging Quantity | 16 |
|--------------------|----|

| | |
|------------------|------|
| Packaging Method | Tube |
|------------------|------|

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

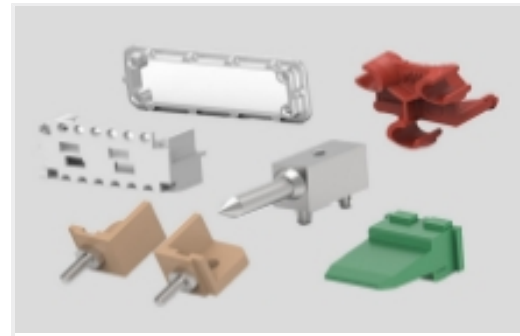


TE Part # 1-487769-0
012 HOUSING FFC RCPT 100CL SR

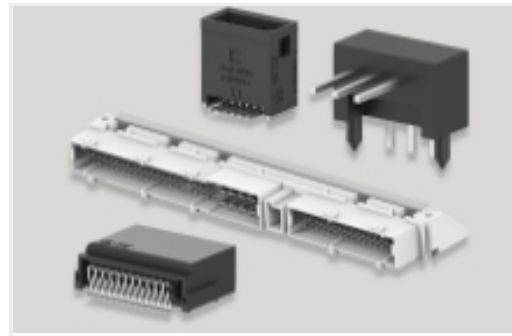
Also in the Series | AMPMODU Headers



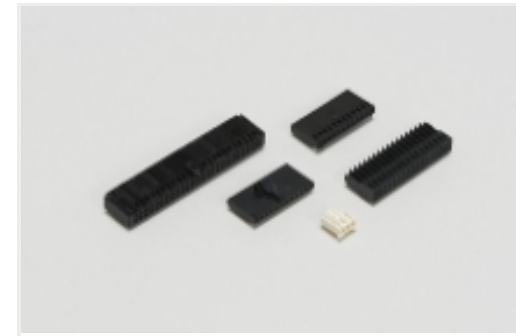
Connector Contacts(52)



Connector Hardware(1)



PCB Headers & Receptacles(1618)

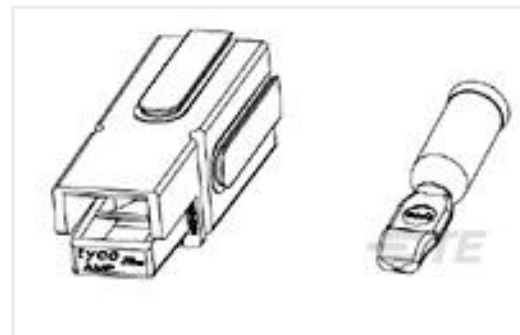


Wire-to-Board Connector Assemblies & Housings(5)

Customers Also Bought



TE Part #5745183-7
09 RCPT SP/MS STD



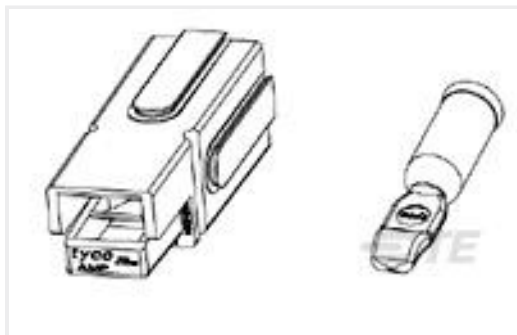
TE Part #1604002-5
120A SGL POLE KIT, 2 AWG RED



TE Part #1-1734100-0
Champ050 series,100pos,Au over PdNi



TE Part #2-1445087-2
MICRO MNL HDR ASSY S/ROW AU LF



TE Part #1604002-2
120A SGL POLE KIT, 2 AWG BLACK



TE Part #5-102203-1
04 MODII HDR SRRA SHRD LF



TE Part #1744090-1
PANEL MT BRACKET,120 SERIES



TE Part #5-5175473-5
.050CL,CHAMP,VERT PLUG,40 POSN



TE Part #4-641210-8
18P MTA156 HDR FLRA FB 30AU LF



Documents

Product Drawings

[12 MODII HDR SRRA SHRD LF](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_5-102203-9_V.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_5-102203-9_V.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_5-102203-9_V.2d_dxf.zip](#)

English

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

Datasheets & Catalog Pages

[AMPMODU_INTERCONNECTION_SYSTEM_SECTION5](#)

English

[AMPMODU Interconnection System](#)

[AMPMODU Interconnection System](#)

English