# 2-2842248-0

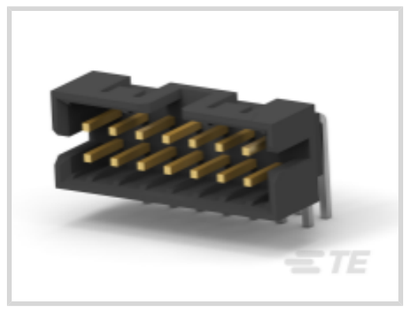
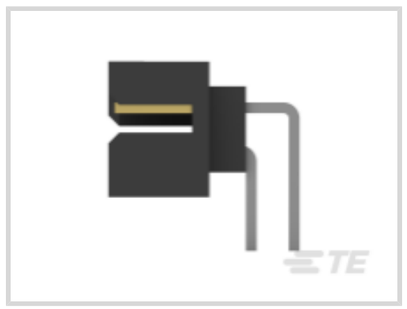
AMPMODU | AMPMODU 2 mm

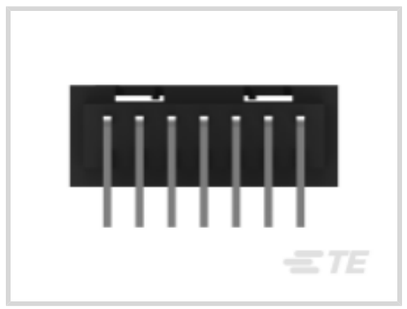
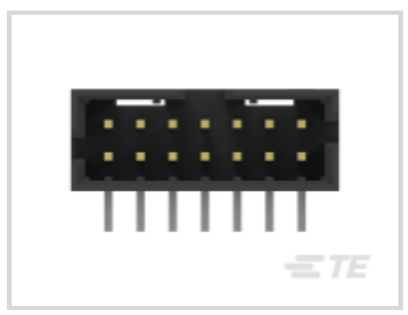
TE Internal #: 2-2842248-0

TE Internal Description: 20P,2MM,SHRD HDR,DRRT,0.1AU,TB

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles

PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **20**

Number of Rows: **2**

Centerline (Pitch): **2 mm [ .079 in ]**

## Features

### Product Type Features

| | |
|---|---|
| PCB Connector Type | PCB Mount Header |
| Connector System | Board-to-Board |
| Header Type | Fully Shrouded |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type | Connector Assembly |

### Configuration Features

| | |
|---|---|
| Number of Signal Positions | 20 |
| Connector Contact Load Condition | Fully Loaded |
| Stackable | No |
| Number of Positions | 20 |
| Number of Rows | 2 |
| PCB Mount Orientation | Right Angle |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 125 VAC |
| Dielectric Withstanding Voltage (Max) | 500 VAC |

## Body Features

| | |
|---|---|
| Connector Profile | Standard |
| Primary Product Color | Black |

## Contact Features

| | |
|---|---|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | .5 µm[19.69 µin] |
| PCB Contact Termination Area Plating Material Finish | Bright |
| Mating Square Post Dimension | .5 mm[.02 in] |
| Contact Shape & Form | Square |
| PCB Contact Termination Area Plating Material Thickness | 2 µm[78.74 µin] |
| Contact Layout | Inline |
| Contact Mating Area Length | 3.6 mm[.142 in] |
| Contact Base Material | Brass |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | .1 µm[3.94 µin] |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Type | Pin |
| Contact Current Rating (Max) | 2 A |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 2.5 mm[.098 in] |
| Square Termination Post & Tail Dimension | .5 mm[.02 in] |
| Termination Method to PCB | Through Hole - Solder |

## Mechanical Attachment

| | |
|---|---|
| Mating Retention Type | Locking Ramp |
| Mating Retention | With |
| Mating Alignment Type | Polarizing Slot |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 2 mm[.079 in] |
| Housing Material | PA 9T GF |

## Dimensions

| | |
|---|---|
| Connector Width | 6.3 mm[.248 in] |
| Connector Height | 6.4 mm[.252 in] |
| Connector Length | 22.65 mm[.892 in] |
| Row-to-Row Spacing | 2 mm[.079 in] |
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |

### Usage Conditions

| | |
|---|---|
| Housing Temperature Rating | High |
| Operating Temperature Range | -40 – 125 °C[-40 – 257 °F] |

### Operation/Application

| | |
|---|---|
| Assembly Process Feature | Without Pick and Place Cover |
| Circuit Application | Signal |

### Industry Standards

| | |
|---|---|
| Compatible With Agency/Standards Products | UL |
| UL Rating | Recognized |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating | UL 94V-0 |

### Packaging Features

| | |
|---|---|
| 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 2025 (250)<br>Candidate List Declared Against: JAN 2024 (240)<br>Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Reflow solder capable to 260°C |

Product Compliance Disclaimer

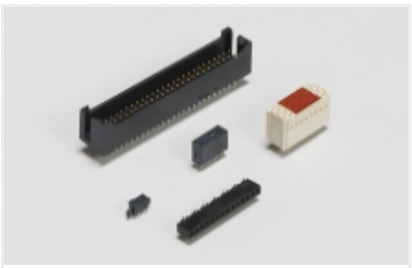
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 2-2316109-0
20P,2MM,REC,HSG,DR,CRIMP,LCK RAMP,BOX

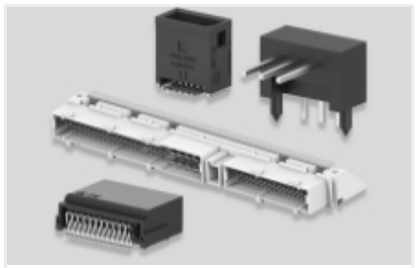
## Also in the Series | AMPMODU 2 mm



Board-to-Board Headers & Receptacles(445)



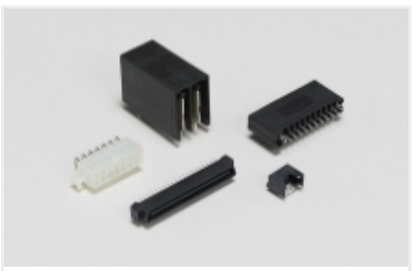
Connector Contacts(17)



PCB Headers & Receptacles(454)



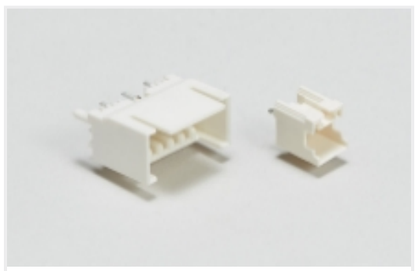
Rectangular Connector Housings(103)



Standard Rectangular Connectors(202)



Wire-to-Board Connector Assemblies & Housings(202)



Wire-to-Board Headers & Receptacles (53)

## Customers Also Bought



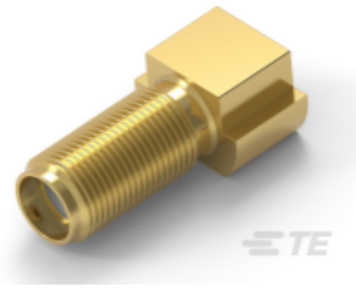
TE Part #4-794618-8
18P MICRO MNL ASSY R/A HDR LF



TE Part #4-794620-6
16P MICRO MNL ASSY,R/A,HDR,LF



TE Part #8-1625867-1
RP 1J 0.166W 43R2 0.1% 25PPM 1K RL



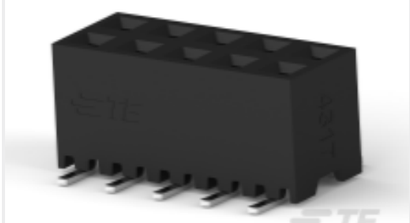
TE Part #2081897-1
SMA,JACK,18GHZ,STRAIGHT, SURFACE MOUNT




TE Part #7-2176231-9
3522 18K 1% 3W




TE Part #1-2176349-8
CRGCQ 2512 270R 1%



TE Part #1-2314844-0
10P,2MM,B-B,REC,DRVT,SMD,0.1AU, TB,W/CP



TE Part #5-2337993-2
RJ45 JACK MAG. POE 10/100 LED 1X1 VERT.



TE Part #1-5499141-2
A/L UNIV HDR 64P RA LAT



TE Part #103906-6
07 MTE HDR SRRA LATCH .100CL

## Documents

### Product Drawings

20P,2MM,SHRD HDR,DRRT,0.1AU,TB

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-2842248-0_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-2842248-0_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-2842248-0_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Product Specifications

## Application Specification

English