

5-104076-1 ✓ ACTIVE

AMPMODU | AMPMODU System 50

TE Internal #: 5-104076-1

PCB Mount Header, Vertical, Board-to-Board, 20 Position, 1.27 mm  
[.05 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder,  
AMPMODU System 50

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **20**

Number of Rows: **2**

## Features

### Product Type Features

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

### Configuration Features

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	20
Number of Rows	2
Board-to-Board Configuration	Parallel

### Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 VAC
Insulation Resistance	5000 MΩ
Operating Voltage	30 VAC

### Body Features

Connector Profile	Standard
Primary Product Color	Black



### Contact Features

Mating Square Post Dimension	.38 mm[.015 in]
PCB Contact Termination Area Plating Material Thickness	3.81 – 6.35 $\mu\text{m}$ [150 – 250 $\mu\text{in}$ ]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Rectangular
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 $\mu\text{m}$ [30 $\mu\text{in}$ ]
Contact Type	Pin
Contact Current Rating (Max)	3.6 A

### Termination Features

Termination Post & Tail Diameter	.38 mm[.015 in]
Termination Post & Tail Length	2.54 mm[.1 in]
Termination Method to PCB	Through Hole - Solder

### Mechanical Attachment

Mating Alignment	With
Mating Alignment Type	Card Edge Slot
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	LCP

### Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

### Usage Conditions

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

UL Rating

Recognized

Compatible With Agency/Standards Products

CSA, UL

Compatible With Approved Standards Products

CSA LR7189, UL E28476

UL Flammability Rating

UL 94V-0

### Packaging Features

Packaging Quantity

31

Packaging Method

Box, 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

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

Wave 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 # 5-103911-2  
20 SYSTEM 50 RCPT ASSY DRRA

### Also in the Series | AMPMODU System 50



PCB Headers & Receptacles(990)

### Customers Also Bought



TE Part #1-1418362-3  
62 POS MIXED HEADER CODA



TE Part #440052-3  
2.5MM,HDR,3POS,VERTICAL,  
CONNECTOR



TE Part #4-2103015-4  
PLUG SUBASSY, D, HVA280-2PHM F



TE Part #1-2103124-4  
HEADER ASSY, Ag SHIELD, KEY D,  
HVA280-2P



TE Part #5-104076-8  
100 SYS50 HDR DRST SHR W/SL SN



TE Part #2-1105001-3  
HD.M-C-BU.SN.0,5



TE Part #2-1105000-3  
HD.M-C-STI.SN.0,5



TE Part #1102918-1  
HEE.10.STI.C.B1-10



TE Part #1106423-3  
HD-K.16.STO.1.M32.G



## Documents

### Product Drawings

[20 SYS50 HDR DRST SHRD W/SL SN](#)

English

---

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5-104076-1\\_U.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-104076-1\\_U.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-104076-1\\_U.3d\\_stp.zip](#)

English

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

---

### Datasheets & Catalog Pages

[AMPMODU\\_INTERCONNECTION\\_SYSTEM\\_SECTION3AND4](#)

English

---

### Product Specifications

[Application Specification](#)

English