

5-104655-3 ✓ ACTIVE

AMPMODU | AMPMODU 50/50 Grid

TE Internal #: 5-104655-3

PCB Mount Header, Vertical, Board-to-Board, 20 Position, 1.27 mm  
[.05 in] Centerline, Fully Shrouded, Gold, Surface Mount, Black,  
AMPMODU 50/50 Grid

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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)	300 VAC
Operating Voltage	30 VAC

### Body Features

PCB Retention Feature Material	Copper Alloy
PCB Retention Feature Plating Material	Tin-Lead over Nickel
Connector Profile	Standard



Primary Product Color	Black
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#### Contact Features

	150 µin
Mating Pin Diameter	.46 mm[.018 in]
Contact Shape & Form	Round
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Type	Pin
Contact Current Rating (Max)	.5 A

#### Termination Features

Termination Post & Tail Diameter	.46 mm[.018 in]
Termination Method to PCB	Surface Mount

#### Mechanical Attachment

PCB Mount Retention Type	Hold-Down Post
Mating Alignment	With
Mating Alignment Type	Keyed
PCB Mount Retention	With

#### Housing Features

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

#### Dimensions

Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	6.35 mm[.25 in]

#### Usage Conditions

Operating Temperature Range	-65 – 105 °C
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#### Industry Standards

Compatible With Approved Standards Products	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

#### Packaging Features

Packaging Quantity	33
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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

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



Also in the Series | [AMPMODU 50/50 Grid](#)



Connector Caps & Covers(9)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(299)

Ribbon Cable Connectors(34)

## Customers Also Bought

TE Part #5767054-1  
MICT,RECPT,38,ASSY,PDNI

TE Part #9-1879212-3  
CPF 0402 22R1 0.1% 25PPM 1K RL

TE Part #2176495-3  
BMC 1210 60R 25% A Gen C

TE Part #2101510-2  
4 Pos RF Module, Backplane, OSMM PASSIVA

TE Part #1996942-1  
OSMM STR CBL PLUG RG405

TE Part #6274096-1  
JACK ASSEMBLY, ACTION PIN, SMA

TE Part #1218434-3  
R/A RCP ASSY 25 POS SER 109

TE Part #202799-1  
CNTR FASTENER PLUG BLOCK,160P

TE Part #2313444-1  
MULTIBEAM 270V, VERTICAL FIN, VITA 62

## Documents

### Product Drawings

[20 50/50 HDR DRST SFMNT TIN](#)

English

### CAD Files

[3D PDF](#)

English

### Customer View Model

[ENG\\_CVM\\_5-104655-3\\_L.2d\\_dxf.zip](#)



English

**Customer View Model**

[ENG\\_CVM\\_5-104655-3\\_L.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_5-104655-3\\_L.3d\\_stp.zip](#)

English

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

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**Datasheets & Catalog Pages**

[AMPMODU\\_INTERCONNECTION\\_SYSTEM\\_SECTION1AND2](#)

English

[Ribbon Cable Interconnect Solutions](#)

English

[Fine Pitch Stacking Connectors - 1.27mm AMPMODU 50/50 Grid Connectors](#)

English

[5-1773700-6\\_AMPMODU\\_50\\_50\\_QRG](#)

English

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**Product Specifications**

[Application Specification](#)

English

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**Agency Approvals**

[UL Report](#)

English