



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

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

Configuration Features

Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	20
Number of Rows	2
Board-to-Board Configuration	Orthogonal, Parallel

Electrical Characteristics

Insulation Resistance	5000 MΩ
Operating Voltage	30 VAC



Body Features

PCB Retention Feature Material	Copper Alloy
PCB Retention Feature Plating Material	Tin
Primary Product Color	Black

Contact Features

Mating Square Post Dimension	.38 mm[.015 in]
PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Layout	Matrix
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.762 μm[30 μin]
Contact Type	Receptacle
Contact Current Rating (Max)	3.6 A

Termination Features

Rectangular Termination Post & Tail Thickness	.38 mm[.015 in]
Rectangular Termination Post & Tail Width	.2 mm[.008 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

PCB Mount Retention Type	Boardlock
Mating Alignment	Without
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

Connector Length	13.82 mm[.544 in]
Connector Height	9.4 mm[.37 in]
Connector Width	5.03 mm[.198 in]
Row-to-Row Spacing	2.54 mm[.1 in]



Stack Height	13.08 mm[.514 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]

Operation/Application

Solder Process Feature	Board Standoff
Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	26
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	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

TE Part # 5-104549-2
20 SYS50 S/M HDR DRST SHRDSN

TE Part # 5-104069-1
20 sys 50 hdr drra shrd sn

TE Part # 5-104068-1
20 SYSTEM 50 HDR DRST SHRD

TE Part # 5-147377-2
20 SYS50 SMT HDR DR SHD SN

TE Part # 5-104666-1
20 SYSTEM 50 HDR DRST SHRD SN

TE Part # 5-103916-2
20 SYS 50 HDR DRST UNSHRD SN

TE Part # 5-104477-2
20 SYSTEM 50 HDR DRRA SHRD SN

TE Part # 2-1825601-0
20 SYS50 SMT HDR DR SHD W/O CAP

TE Part # 5-104118-7
20 SYS 50 HDR DRRA UNSHRD SN

Also in the Series | AMPMODU System 50

PCB Headers & Receptacles(990)

Customers Also Bought



TE Part #1-2176058-7 RLP73M 3A R047 5% 2K RL	TE Part #T4041037031-000 M8.FMLE.PNLREAR.3POS.STR PCBSHLD	TE Part #1487595-3 USB, A-B, 28/26, BLACK, .83M	TE Part #1487596-2 USB, A-B, 28/24, BLACK, 1.5M
TE Part #1860306-1 RT78725	TE Part #1-1393239-9 RT114730	TE Part #1487594-1 USB, A-B, 28/28, BLACK, 0.5M	TE Part #2022103-1 RT17017
TE Part #1676183-2 RN 0805 13K 0.1% 10PPM 1KRL	TE Part #1-1705951-1 Modular Jack SE, 8/8, Gold flash		

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5-104550-2_S.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5-104550-2_S.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5-104550-2_S.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

Fine Pitch Stacking Connectors - 1.27mm AMPMODU System 50 Connectors

English



AMPMODU SYSTEM 50 QUICK REFERENCE GUIDE

English

AMPMODU SYSTEM 50

English

Product Specifications

Application Specification

English