

5-104550-6 ✓ ACTIVE

AMPMODU | AMPMODU System 50

TE Internal #: 5-104550-6

PCB Mount Receptacle, Vertical, Board-to-Board, 50 Position, 1.27 mm [.05 in] Centerline, Gold, Surface Mount, Signal, Black, Tube, AMPMODU System 50

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Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

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

PCB Mount Orientation: **Vertical**

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

## Features

### Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

### Product Type Features

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

### Configuration Features

Board-to-Board Configuration	Orthogonal, Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2

### Electrical Characteristics

Operating Voltage	30 VAC
Insulation Resistance	5000 MΩ

### Body Features

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

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

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

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

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

Row-to-Row Spacing	2.54 mm[.1 in]
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Stack Height	13.08 mm[.514 in]
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Connector Width	5.03 mm[.198 in]
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PCB Thickness (Recommended)	1.57 mm[.062 in]
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Connector Height	9.4 mm[.37 in]
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Connector Length	32.87 mm[1.3 in]
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### Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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### Operation/Application

Solder Process Feature	Board Standoff
Circuit Application	Signal

### Industry Standards

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

### Packaging Features

Packaging Quantity	13
Packaging Method	Tube

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

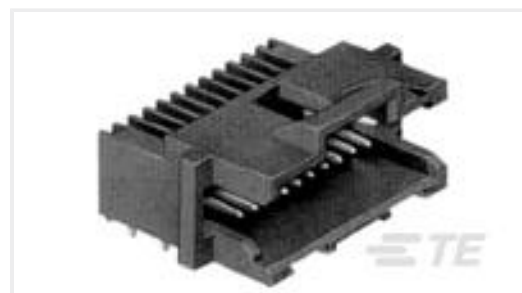
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does 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



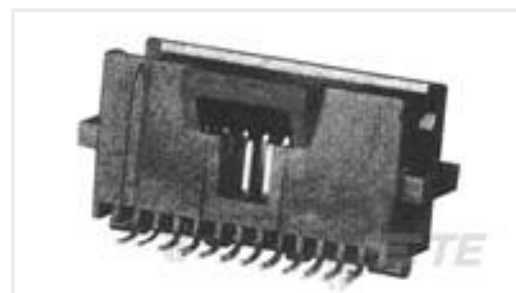
TE Part # 5-104069-2  
50 sys 50 hdr drra shrd sn



TE Part # 5-104068-4  
40 SYSTEM 50 HDR DRST SHRD



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



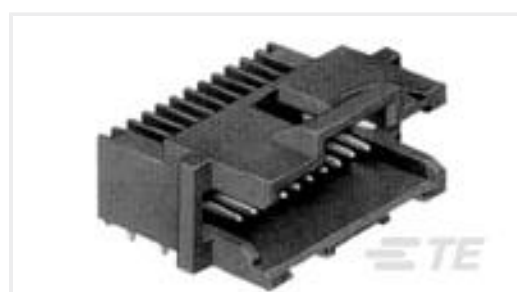
TE Part # 5-104549-7  
50 SYS50 S/M HDR DRST SHRDSN



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



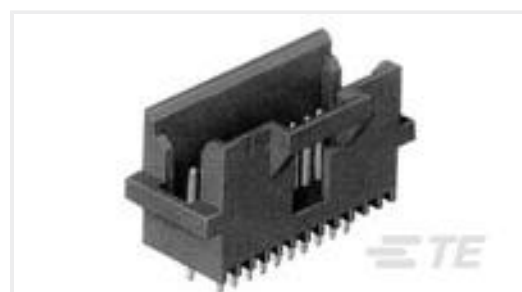
TE Part # 5-104118-1  
50 SYS 50 HDR DRRA UNSHRD SN



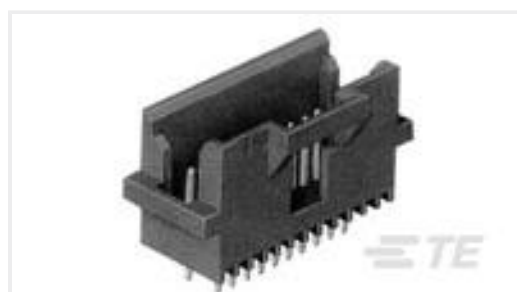
TE Part # 5-104477-5  
50 SYSTEM 50 HDR DRRA SHRD SN



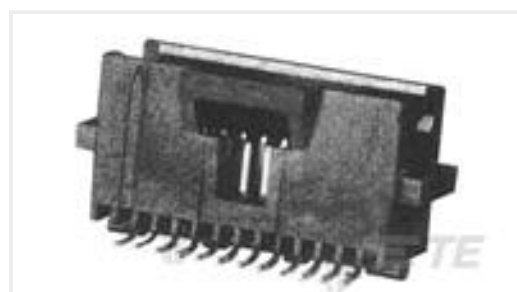
TE Part # 6-103916-3  
50 sys 50 hdr drst unshrd sn



TE Part # 5-104666-4  
50 SYSTEM 50 HDR DRST SHRD SN

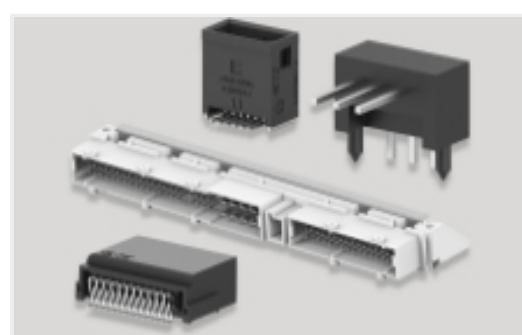


TE Part # 5-147380-1  
50SYS 50 HDR DRST SHRD SN



TE Part # 1825601-1  
50 SYS50 SMT HDR DR SHD SN W/O

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



PCB Headers & Receptacles(685)

## Customers Also Bought



TE Part #1546306-4  
4P .374" DR BARRIER STRIP



TE Part #2-342184-1  
TAPE MOUNTED FEFG 12-10 R/T



TE Part #244999-E  
STVCD 128 F ABCD VVV 7-00 EE 5,5 \* 247



TE Part #484823-E  
STVE/2 80 M ABCDE VVVV 4-00 0606 \* 8360



TE Part #484824-E  
STVC 96 M ABC VV 4-00 0606 \* 8360 207 E



TE Part #494135-E  
STVC/2 48 M ABC VV 4-00 0606 \* 8360 207



TE Part #494136-E  
STVC/2 48 F ABC VV 7-00 TL 4,0 \* 207 E0



TE Part #484827-E  
STVE/2 80 F ABCDE VVVV 7-00 0606 3,7 \*



TE Part #163665N003  
S02-07-RCS453

## Documents

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5-104550-6\\_S.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-104550-6\\_S.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-104550-6\\_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



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[Product Specifications](#)

[Application Specification](#)

English