

6-104186-1 ✓ ACTIVE

AMPMODU | AMPMODU System 50

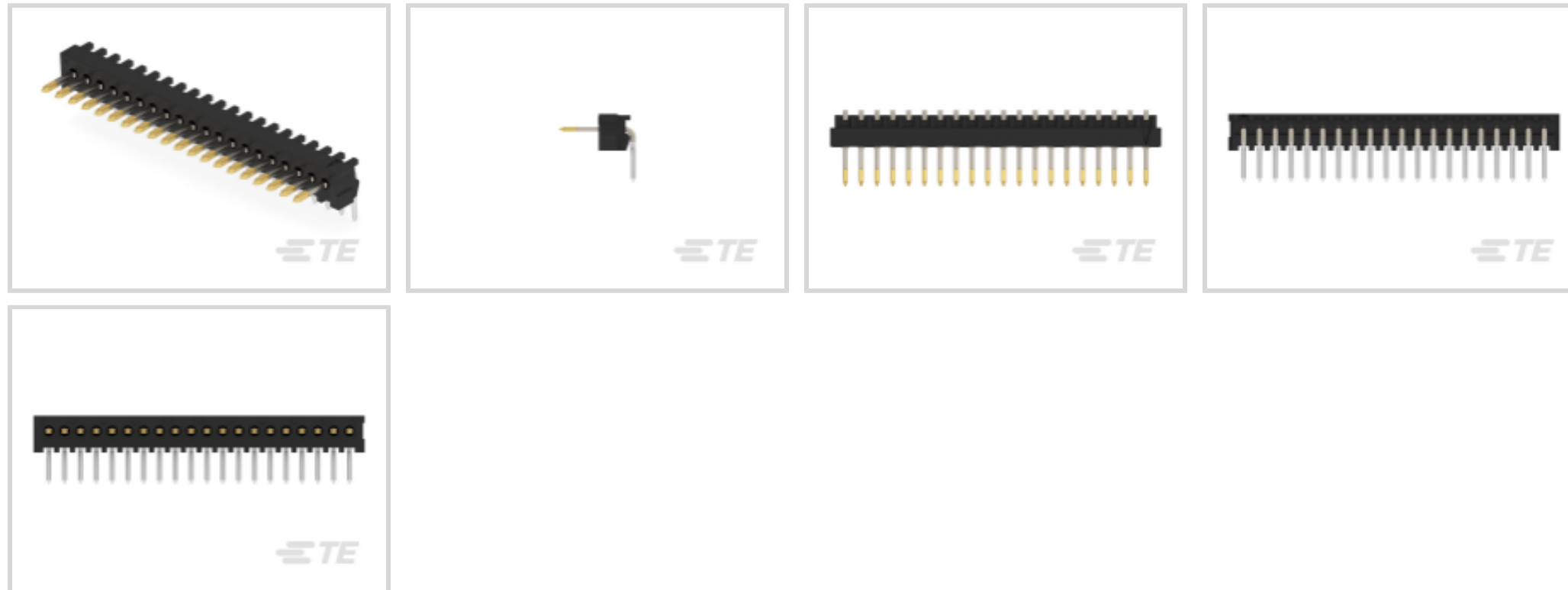
TE Internal #: 6-104186-1

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

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Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **20**

Number of Rows: **1**

Features

Product Type Features

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

Configuration Features

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Right Angle
Number of Positions	20
Number of Rows	1
Board-to-Board Configuration	Perpendicular

Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 VAC
Insulation Resistance	5000 M Ω



Operating Voltage	30 VAC
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Body Features

Primary Product Color	Black
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Contact Features

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

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

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

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

PCB Thickness (Recommended)	1.57 mm[.062 in]
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Usage Conditions

Housing Temperature Rating	High
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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

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	20
Packaging Method	Box, Tube

Other

Position Locations Omitted	0
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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 # CAT-F439-R2435127
FFC Receptacle Housing: 1.27mm



TE Part # 5-104196-5
20 SYSTEM 50 RCPT ASSY SRRA SN



TE Part # 5-104192-5
20 SYSTEM 50 RCPT ASSY SRS SN

Also in the Series | AMPMODU System 50



PCB Headers & Receptacles(990)

Customers Also Bought



TE Part #786585-2
50SR SCREWLOCK KIT,FEMALE



TE Part #1-1393560-8
V42254A 122V 1=SUB D BOLZENZA



TE Part #5-104655-5
40 50/50 HDR DRST SFMNT TIN



TE Part #87224-2
02 MODII HDR SRST UNSHRD .100



TE Part #1825027-5
FSMRA2JH04=R/A,TACT PB SW,160G



TE Part #826926-2
AMPMODU II PIN HEADER



TE Part #1622918-1
CRG0603 1% 330R



TE Part #5-104656-1
10 50/50 HDR DRST SFMNT.320 SN



Documents

Product Drawings

[20 SYS 50 HDR SRRA UNSHRD SN](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_6-104186-1_W.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6-104186-1_W.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6-104186-1_W.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

[AMPMODU SYSTEM 50 QUICK REFERENCE GUIDE](#)

English

[AMPMODU SYSTEM 50](#)

English

Product Specifications

[Application Specification](#)

English