



# MULTIPLE CONFIGURATION PCB HEADERS & RECEPTACLES



✓ Active

↓ **PRODUCT DRAWING**  
English

↓ **3D PDF**

TE CONNECTIVITY (TE)

## 20 50/50 HDR DRST SFMNT.390 SN

AMPMODU | AMPMODU 50/50 Grid

5-104693-2

TE Internal Number: 5-104693-2

Always EU RoHS/ELV Compliant

Applies To **Printed Circuit Board**

Connector Style **Plug**

Centerline **1.27 mm [ .05 in ]**

Number of Positions **20**

Header Type **Shrouded**

### Product Drawings

[HEADER ASSEMBLY, SURFACE MOUNT, AMPMODU 50/50 GRID \(9.90 \[.390\] MATED HEIGHT\)](#)

PDF  
English

### CAD Files

[3D PDF](#)

PDF  
3D

[Customer View Model](#)

2D\_DXF.ZIP  
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[Customer View Model](#)

3D\_IGS.ZIP  
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[Customer View Model](#)

3D\_STP.ZIP  
English

### Catalog Pages/Data Sheets

[Ribbon Cable Interconnect Solutions](#)

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

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

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[2-1773454-6 Stacking Connectors](#)

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### Product Specifications

Application Specification

[AMPMODU 50/50 Grid Connectors For SMT PC Board And IDC Ribbon Cable Applications](#)

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## Product Environmental Compliance

TE Material Declaration

[MD\\_5-104693-2\\_041620151126\\_dmtec](#)

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Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

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Product Type Features	Applies To	<b>Printed Circuit Board</b>
	Connector Style	<b>Plug</b>
	PCB Mounting Orientation	<b>Vertical</b>
	Connector Type	<b>Header</b>
	Row-to-Row Spacing	<b>1.27 mm [ .05 in ]</b>
	Stabilizers	<b>Without</b>
	Strain Relief	<b>Without</b>
	Board Standoff	<b>Without</b>
	Profile	<b>Standard</b>
	Product Type	<b>Connector</b>
	Gasket	<b>Without</b>

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Configuration Features	Number of Positions	<b>20</b>
	Number of Rows	<b>2</b>
	Keyed	<b>Yes</b>
	Selectively Loaded	<b>No</b>

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Electrical Characteristics	Voltage (VAC)	<b>30</b>
	Dielectric Withstanding Voltage	<b>300 VAC</b>

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Body Features	Header Type	<b>Shrouded</b>
	Post Size (in)	<b>.015</b>
	Hold-Down Post Plating Material	<b>Tin over Nickel</b>
	Hold-Down Post Plating Thickness	<b>Tin: 150- Nickel: 50</b>
	Hold-Down Post Material	<b>Copper Alloy</b>

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Contact Features	Contact Protection	<b>With</b>
	Contact Shape	<b>Round</b>
	Underplate Material	<b>Nickel</b>

	Contact Type	<b>Pin</b>
	Contact Base Material	<b>Phosphor Bronze</b>
	Contact Mating Area Plating Thickness (µin)	<b>30</b>
	Solder Tail Contact Plating Material	<b>Tin</b>
	Contact Mating Area Plating Material	<b>Gold</b>
	Contact Protection Type	<b>Shrouded</b>
	Contact Current Rating (A)	<b>4</b>
Termination Features	Termination End Plating Thickness (µin)	<b>150</b>
	Termination End Plating Material	<b>Tin-Lead</b>
	Termination Method to PC Board	<b>Surface Mount</b>
Mechanical Attachment	PCB Mounting Style	<b>Surface Mount</b>
	PCB Mount Retention Type	<b>Hold-Down Post(s)</b>
	PCB Mount Retention	<b>With</b>
	Panel Mount Retention	<b>Without</b>
	Mating Alignment	<b>With</b>
	Mating Connector Lock	<b>Without</b>
	Mating Alignment Type	<b>Keyed</b>
Housing Features	Centerline	<b>1.27 mm [ .05 in ]</b>
	Housing Color	<b>Black</b>
	Housing Material	<b>Thermoplastic</b>
	Housing Style	<b>2-Sided</b>
Dimensions	Shrouded End Dimension (in)	<b>.036</b>
	Stack Height	<b>9.91 mm [ .39 in ]</b>
	Mating Post Length	<b>3.048 mm [ .12 in ]</b>
Usage Conditions	Operating Temperature Range (°C)	<b>-65 – 105</b>
Industry Standards	UL Flammability Rating	<b>UL 94V-0</b>
	Approved Standards	<b>CSA LR7189, UL E28476</b>
Packaging Features	Packaging Quantity	<b>33</b>
	Packaging Method	<b>Tube, Tube/Box</b>

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RELATIONSHIP

### Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - Board-to-Board Headers & Receptacles

AMPMODU | AMPMODU 50/50 Grid

**20 50/50 GRID DRST  
SFMNT RCPT - 104652-2**

TE INTERNAL NUMBER: 104652-2

✓ Active

Not EU RoHS or ELV Compliant

Connector Style **Receptacle**

Centerline **1.27 mm**

Number of Positions **20**

Packaging Method **Tube,  
Tube/Box**

Contact Mating Area Plating  
Material **Gold**



RELATIONSHIP

### Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - Board-to-Board Headers & Receptacles

AMPMODU | AMPMODU 50/50 Grid

**20 50/50 GRID SMT RCPT  
VC LF - 5-147384-2**

TE INTERNAL NUMBER: 5-147384-2

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Centerline **1.27 mm**

Number of Positions **20**

Packaging Method **Tape & Reel**

Contact Mating Area Plating  
Material **Gold**



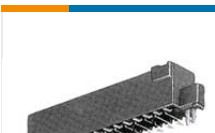
RELATIONSHIP

### Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS



Connectors - Board-to-Board Headers & Receptacles

AMPMODU | AMPMODU 50/50 Grid

**20 50/50 GRID DR SMT**

5 of 6 EU RoHS/ELV Compliant

Connector Style **Receptacle**





20 00/00 GRID DR 0111

## RCPT VC - 147384-2

TE INTERNAL NUMBER: 147384-2

✓ Active

Centerline **1.27 mm**

Number of Positions **20**

Packaging Method **Tape & Reel**

Contact Mating Area Plating

Material **Gold**