

6-104652-0 ✓ ACTIVE

AMPMODU | AMPMODU 50/50 Grid

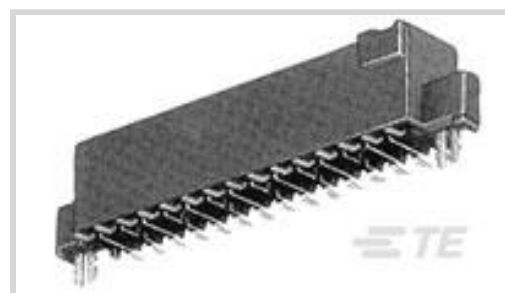
TE Internal #: 6-104652-0

PCB Mount Receptacle, Vertical, Board-to-Board, 100 Position, 1.27 mm [.05 in] Centerline, Gold, Surface Mount, Signal, Black, AMPMODU 50/50 Grid

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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

### Contact Features

|  |                           |
|--|---------------------------|
|  | 150 $\mu$ m               |
| Mating Pin Diameter                            | .46 mm [.018 in]          |
| Contact Mating Area Plating Material Thickness | .762 $\mu$ m [30 $\mu$ m] |
| Contact Base Material                          | Copper Alloy              |
| PCB Contact Termination Area Plating Material  | Tin                       |
| Contact Mating Area Plating Material           | Gold                      |
| Contact Type                                   | Socket                    |
| Contact Current Rating (Max)                   | .5 A                      |

### Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Assembly Type       | PCB Mount Receptacle  |
| Connector System                  | Board-to-Board        |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

|                              |          |
|------------------------------|----------|
| Board-to-Board Configuration | Parallel |
| PCB Mount Orientation        | Vertical |



|                     |     |
|---------------------|-----|
| Number of Positions | 100 |
|---------------------|-----|

|                |   |
|----------------|---|
| Number of Rows | 2 |
|----------------|---|

### Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 30 VAC |
|-------------------|--------|

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 5000 MΩ |
|-----------------------|---------|

### Body Features

|                                |              |
|--------------------------------|--------------|
| PCB Retention Feature Material | Copper Alloy |
|--------------------------------|--------------|

|  |                 |
|--|-----------------|
| PCB Retention Feature Plating Material | Tin over Nickel |
|--|-----------------|

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

### Termination Features

|   |                 |
|---|-----------------|
| Rectangular Termination Post & Tail Width | .36 mm[.014 in] |
|---|-----------------|

|   |                 |
|---|-----------------|
| Rectangular Termination Post & Tail Thickness | .08 mm[.003 in] |
|---|-----------------|

|                           |               |
|---------------------------|---------------|
| Termination Method to PCB | Surface Mount |
|---------------------------|---------------|

### Mechanical Attachment

|                          |                |
|--------------------------|----------------|
| PCB Mount Retention Type | Hold-Down Post |
|--------------------------|----------------|

|                       |                |
|-----------------------|----------------|
| Mating Alignment Type | Polarizing Tab |
|-----------------------|----------------|

|                     |      |
|---------------------|------|
| PCB Mount Retention | With |
|---------------------|------|

|                     |         |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

|                  |      |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

### Housing Features

|                  |                                   |
|------------------|-----------------------------------|
| Housing Material | LCP - GF (Liquid Crystal Polymer) |
|------------------|-----------------------------------|

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 1.27 mm[.05 in] |
|--------------------|-----------------|

### Dimensions

|                    |                 |
|--------------------|-----------------|
| Row-to-Row Spacing | 1.27 mm[.05 in] |
|--------------------|-----------------|

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
|-----------------------------|------------------|

|                  |                  |
|------------------|------------------|
| Connector Height | 4.75 mm[.187 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 Approved Standards Products | UL E28476, CSA LR7189 |
| UL Flammability Rating                      | UL 94V-0              |

### Packaging Features

|                    |           |
|--------------------|-----------|
| Packaging Quantity | 8         |
| Packaging Method   | Tube, Box |

### Product Compliance

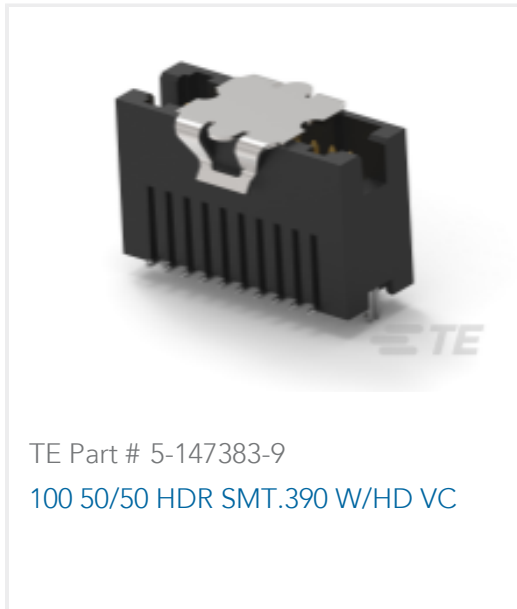
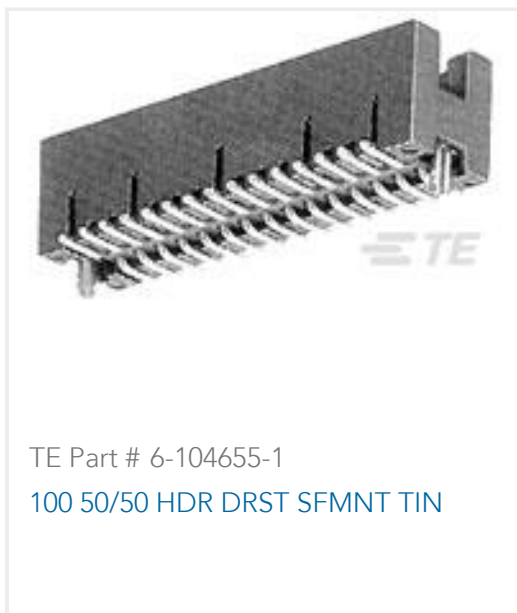
[For compliance documentation, visit the product page on TE.com>](#)

|   |   |
|---|---|
| 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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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  |

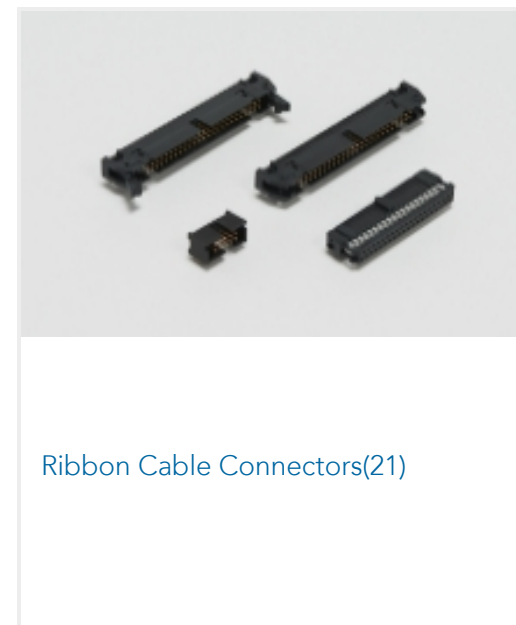
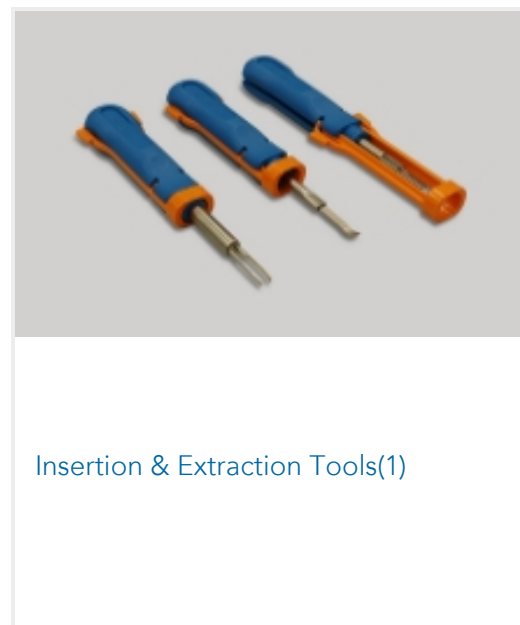
#### Product Compliance Disclaimer

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**



Customers Also Bought





## Documents

### Product Drawings

[100 50/50 GRID DRST SFMNT RCPT](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_6-104652-0\\_L.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_6-104652-0\\_L.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_6-104652-0\\_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