# 104666-4 DO NOT USE FOR NEW DESIGN

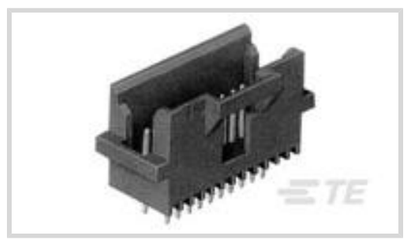
AMPMODU | AMPMODU System 50

TE Internal #: 104666-4

PCB Mount Header, Vertical, Board-to-Board, 50 Position, 1.27 mm [.05 in] Centerline, Fully Shrouded, Gold (Au), AMPMODU System 50

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **50**

Number of Rows: **2**

Centerline (Pitch): **1.27 mm [ .05 in ]**

## Features

### Product Type Features

| | |
|---|---|
| PCB Connector Type | PCB Mount Header |
| Connector System | Board-to-Board |
| Header Type | Fully Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type | Connector Assembly |

### Configuration Features

| | |
|---|---|
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions | 50 |
| Number of Rows | 2 |
| PCB Mount Orientation | Vertical |
| Board-to-Board Configuration | Parallel |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 30 VAC |
| Insulation Resistance | 5000 MΩ |
| Dielectric Withstanding Voltage (Max) | 500 VAC |

### Body Features

| | |
|---|---|
| Connector Profile | Standard |

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

## Contact Features

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

## Termination Features

| | |
|---|---|
| Termination Post & Tail Diameter | .38 mm[.015 in] |
| Termination Post & Tail Length | 3.68 mm[.145 in] |
| Termination Method to PCB | Through Hole - Solder |

## Mechanical Attachment

| | |
|---|---|
| Mating Retention Type | Latch |
| Mating Retention | With |
| Mating Alignment Type | Polarization |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |
| PCB Mount Alignment | Without |
| PCB Mount Retention | Without |

## Housing Features

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

## Dimensions

| | |
|---|---|
| Row-to-Row Spacing | 2.54 mm[.1 in] |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |

## Usage Conditions

| | |
|---|---|
| Housing Temperature Rating | High |
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |

### Operation/Application

| | |
|---|---|
| Circuit Application | Signal |

### Industry Standards

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

### Packaging Features

| | |
|---|---|
| Packaging Quantity | 13 |
| Packaging Method | Box, Tube |

### Other

| | |
|---|---|
| Position Locations Omitted | 0 |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Not Compliant |
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>SVHC > Threshold:<br>Pb (13% in 4690971273)<br>**Article Safe Usage Statements:**<br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content | Low Halogen - Br, Cl, F < 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 # 104078-5
50 SYSTEM 50 RCPT ASSY DRST



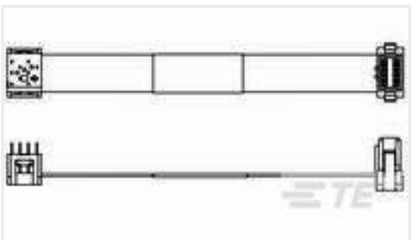
TE Part # 104550-6
50 SYS50 SURFMNT DRST RCPT



TE Part # 1-111196-1
050 RCPT SYSTEM 50 30 DPLX



TE Part # 104078-2
40 SYSTEM 50 RCPT ASSY DRST



TE Part # 1948068-1
10 POS SYST 50, PDLBD RECEP/DR RECEP, 3"

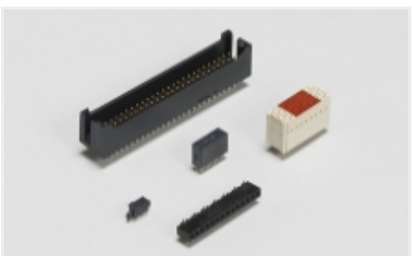


TE Part # 104744-7
50 SYSTEM 50 RCPT ASSY DRST

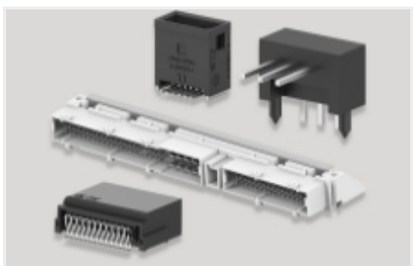


TE Part # 5-487937-0
050 HOUSING FFC 50CL DR LATCH

## Also in the Series | AMPMODU System 50



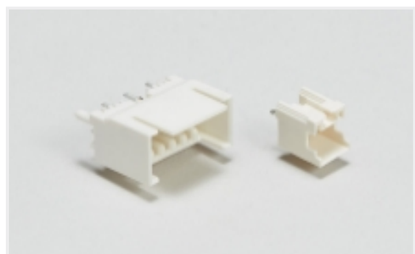
Board-to-Board Headers & Receptacles(218)



PCB Headers & Receptacles(218)



Rectangular Power Connectors(31)

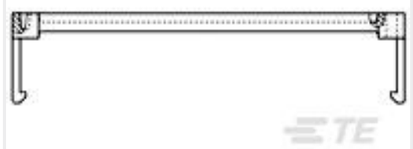


Wire-to-Board Headers & Receptacles (31)

## Customers Also Bought



TE Part #6-104068-8
68 SYSTEM 50 HDR DRST SHRD



TE Part #747275-4
009 LP HDF STRAIN RELIEF



TE Part #CAT-AM7-253
IDC D-Sub: Receptacle Assembly, Low Profile, Signal, 2.77 mm




TE Part #1825190-7
DIP Shunt,8 pos



TE Part #5745187-1
25 RCPT SP/MS STD



TE Part #5745438-4
09 RCPT RA/MS 454



TE Part #2-5767004-2
MICTOR RECEPT ASSY, 38 POS.

## Documents

### Product Drawings

50 SYSTEM 50 HDR DRST SHRD

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_104666-4_AD.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_104666-4_AD.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_104666-4_AD.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Product Specifications

Application Specification

English