



TE Internal #: 5-1747022-3

PCB Mount Receptacle, Vertical, Board-to-Board, 80 Position, .5 mm [.02 in] Centerline, Gold (Au), Surface Mount, Signal, Black, Tape & Reel

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **80**

Centerline (Pitch): **.5 mm [.02 in]**

Features

Product Type Features

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

Configuration Features

| | |
|------------------------------|----------|
| Board-to-Board Configuration | Parallel |
| Stackable | Yes |
| PCB Mount Orientation | Vertical |
| Number of Positions | 80 |

Electrical Characteristics

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|---------------------------------------|---------|
| Operating Voltage | 250 VAC |
| Insulation Resistance | 2 MΩ |
| Dielectric Withstanding Voltage (Max) | 500 VAC |



Body Features

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|-----------------------|-------|
| Connector Profile | Low |
| Primary Product Color | Black |

Contact Features

| | |
|---|--------------------------|
| Contact Mating Area Plating Material Thickness | .05 µm[2 µin] |
| PCB Contact Termination Area Plating Material Thickness | .05 – .127 µm[2 – 5 µin] |
| Contact Layout | Inline |
| Contact Base Material | Copper Alloy |
| PCB Contact Termination Area Plating Material | Gold |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Type | Socket |
| Contact Current Rating (Max) | .5 A |

Termination Features

| | |
|---|----------------|
| Rectangular Termination Post & Tail Width | .6 mm[.023 in] |
| Rectangular Termination Post & Tail Thickness | .2 mm[.008 in] |
| Termination Method to PCB | Surface Mount |

Mechanical Attachment

| | |
|--------------------------|----------------|
| Mating Alignment Type | Keyed |
| PCB Mount Retention Type | None |
| PCB Mount Alignment Type | Locating Posts |
| PCB Mount Retention | Without |
| PCB Mount Alignment | With |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

Housing Features

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|--------------------|--------------------------|
| Housing Material | High heat-resisted resin |
| Centerline (Pitch) | .5 mm[.02 in] |

Dimensions

| | |
|------------------|--|
| Stack Height | 4 mm, 4.5 mm, 5.5 mm, 6 mm[.157 in][.177 in][.217 in][.236 in] |
| Connector Height | 3.2 mm[.126 in] |

Usage Conditions

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|--|--|
| | |
|--|--|



| | |
|-----------------------------|----------------------------|
| Housing Temperature Rating | High |
| Operating Temperature Range | -30 – 105 °C[-22 – 221 °F] |

Operation/Application

| | |
|--------------------------|--------|
| Assembly Process Feature | None |
| Circuit Application | Signal |

Industry Standards

| | |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

| | |
|--------------------|-------------|
| Packaging Quantity | 1000 |
| Packaging Method | Tape & Reel |

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: JAN 2025 (247) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Reflow solder capable to 245°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 # 5-1747254-3
[ON TAPING\(EMBOSS\)0.5 FINE MATE](#)

TE Part # 4-912060-7
[EMBOSS TAPE FOR 0.8 REC 80P H](#)

TE Part # 5-1747257-3
[ON TAPING\(EMBOSS\)0.5 FINE MATE](#)

Customers Also Bought

TE Part #2305220-1
[MICRO STACK HDR ASSY 20MM 0.1 GOLD](#)

TE Part #1-353079-2
[DYNAMIC D-5200 HDR H ASSY 2P](#)

TE Part #3-2229794-1
[D3950 REC 3POS 1ROW X KEY MARKED](#)

TE Part #2-1827876-3
[DYNAMIC 1200D HDR ASSY H 6P Y](#)

TE Part #1-1939638-4
[DYNAMIC 1100D HDR ASSY H 28P XBLACK GOLD](#)

TE Part #6-2260663-1
[DYNAMIC D5900 REC CONNECTOR ASSY 6P-X](#)

TE Part #1-178293-2
[DYNAMIC D3100 HDR H 3P ASSY](#)

TE Part #1981045-1
[DYNAMIC D3900 SPRING OPENER](#)

TE Part #6116526-1
[MJ ASSY,8POS,R/A,SHLD,CAT5e](#)

TE Part #7-1565673-9
[AMPLIMITE 9P PLUG ASSY](#)

Documents

Product Drawings
[ON TAPING\(EMBOSS\) 0.5MM PITCH](#)
English

CAD Files
[3D PDF](#)
3D
Customer View Model
[ENG_CVM_CVM_5-1747022-3_O.2d_dxf.zip](#)



English

Customer View Model

ENG_CVM_CVM_5-1747022-3_O.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5-1747022-3_O.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

Fine Pitch Catalog - 0.5mm Fine Stack and Fine Mate Connectors

English

Product Specifications

0.5mm Pitch Fine Mate Conn.

Japanese

Product Specification

Japanese

Product Specification

English

Instruction Sheets

Instruction Sheet (non U.S.)

English

0.5/0.8MM PITCH FINE MATE CONN.

English