



Connectors > PCB Connectors > PCB Headers & Receptacles



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

Configuration Features

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

Electrical Characteristics

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

Body Features

Connector Profile	Low
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Primary Product Color	Black
Contact Features	
Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	.05 – .127 µm[2 – 5 µin]
PCB Contact Termination Area Plating Material	Gold
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.05 µm[2 µin]
Contact Type	Socket
Contact Current Rating (Max)	.5 A
Termination Features	
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Rectangular Termination Post & Tail Width	.6 mm[.023 in]
Termination Method to Printed Circuit Board	Surface Mount
Mechanical Attachment	
PCB Mount Alignment Type	Locating Posts
PCB Mount Retention Type	None
Mating Alignment	With
Mating Alignment Type	Keyed
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Housing Features	
Centerline (Pitch)	.5 mm[.02 in]
Housing Material	High heat-resisted resin
Dimensions	
Connector Height	3.2 mm[.126 in]
Stack Height	4 mm, 4.5 mm, 5.5 mm, 6 mm[.157 in][.177 in][.217 in][.236 in]
Usage Conditions	
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
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Packaging Features

Packaging Quantity	1000
Packaging Type	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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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 # 5-1747257-3

ON TAPING(EMBOSS)0.5 FINE MATE



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

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

Product Specification

English

0.5mm Pitch Fine Mate Conn.

Japanese

Product Specification

Japanese

Product Environmental Compliance

Product Compliance

English

Product Compliance

English



Instruction Sheets

Instruction Sheet (non U.S.)

English

0.5/0.8MM PITCH FINE MATE CONN.

English