

TE Internal #: 4-174904-2

PCB Mount Receptacle, Vertical, Board-to-Board, 12 Position, 1.25 mm [.049 in] Centerline, Tin (Sn), Surface Mount, Signal, Black, Bag

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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: **12**

Number of Rows: **2**

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	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	50 VAC
Insulation Resistance	2 MΩ
Dielectric Withstanding Voltage (Max)	500 VAC

Body Features

Primary Product Color	Black
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Contact Features

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Mating Pin Diameter	.5 mm[.02 in]
Contact Mating Area Plating Material Thickness	.8 μm[31.5 μin]
PCB Contact Termination Area Plating Material Thickness	.8 μm[31.5 μin]
Contact Layout	Inline
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	1.8 mm[.07 in]
Rectangular Termination Post & Tail Thickness	.3 mm[.012 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

Mating Alignment Type	Polarization
PCB Mount Retention Type	None
PCB Mount Alignment Type	None
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Mating Entry Location	Top
Housing Material	Polyphenylene Sulfide (PPS)
Centerline (Pitch)	1.25 mm[.049 in]

Dimensions

Stack Height	5 mm, 6.5 mm, 7 mm, 10.5 mm[.197 in][.256 in][.276 in][.413 in]
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Usage Conditions

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

Operation/Application

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Circuit Application	Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	1000
Packaging Method	Bag

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	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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



Customers Also Bought



Documents

Product Drawings
1.25FP,R12,DL,O,N,BG
English

Product Specifications
Product Specification
Japanese
AMP MINI CCOMMON TERMINATION (CT), CONNECTOR, 1.5mm PITCH, M/T TYPE, LEAD FREE VERSION
Japanese
AMP 1.25mm F-P Connector (Board To Board)
Japanese
Product Specification
Japanese