



Free Height

TE Internal #: 9-1827231-6  
PCB Mount Receptacle, Vertical, Board-to-Board, 440 Position, .5 mm [.02 in] Centerline, Gold (Au), Surface Mount, Signal, Black, Tray, Free Height

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**  
Connector System: **Board-to-Board**  
Number of Positions: **440**  
Centerline (Pitch): **.5 mm [.02 in ]**  
PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

Stackable	Yes
Number of Positions	440
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Parallel

Electrical Characteristics

Operating Voltage	50 VAC
Insulation Resistance	4 MΩ
Dielectric Withstanding Voltage (Max)	200 VAC

Body Features

Primary Product Color	Black
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Contact Features

Mating Tab Width	.33 mm[.013 in]
PCB Contact Termination Area Plating Material Thickness	.00005 μm



Contact Layout	Inline
Contact Mating Area Length	1 mm, 1.3 mm
Contact Base Material	Copper Alloy
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 µm[29.92 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	.9 mm[.035 in]
Rectangular Termination Post & Tail Thickness	.15 mm[.005 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

PCB Mount Retention Type	Solder Peg
PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With

Housing Features

Centerline (Pitch)	.5 mm[.02 in]
Housing Material	High Temperature Thermoplastic

Dimensions

Connector Height	4 mm
	.76 in
Stack Height	5 mm, 8 mm[.197 in]

Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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Operation/Application

Assembly Process Feature	Pick and Place Cover
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Circuit Application

Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Tray
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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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

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 # 3-1827253-6  
.5FHP05H,220,S,GIG,08/Sn,HT,NSYes

TE Part # 3-6318491-6  
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes

Also in the Series | Free Height

Board-to-Board Headers & Receptacles(737)

PCB Headers & Receptacles(737)

Customers Also Bought

TE Part #5-104076-2  
60 SYS50 HDR DRST SHRD W/SL SN

TE Part #3-1415020-1  
PT570N20

TE Part #1761072-3  
RECPT,HSSDC2,FIBRE,TRAY PKG

TE Part #5146893-2  
1FHR,84,30A/S,S,C,S08,09,10

TE Part #2176314-4  
MELF SMA\_A 180R 0.1% 15PPM 0102 0.3W

TE Part #1-928836-2  
MOD2 PIN WITH A-PIN L/P

TE Part #1-1437581-1  
ASE22RL=AUTOSLIDE DP

TE Part #5-103911-3  
60 SYSTEM 50 RCPT ASSY DRRA

TE Part #4-2176391-7  
RQ 1206 37K4 0.1% 10PPM 5K RL

TE Part #7-2176246-6  
CRGS2512 5% 1M8



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_9-1827231-6\_B.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_9-1827231-6\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_9-1827231-6\_B.3d\_stp.zip

English

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

Datasheets & Catalog Pages

COM Connectors Brochure (English)

English

Product Specifications

Product Specification

English

0.5mm Pitch Board to Board Connector, Free Height Type

English