5120523-2 ACTIVE

Free Height

TE Internal #: 5120523-2

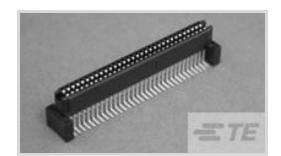
PCB Mount Receptacle, Vertical, Board-to-Board, 84 Position, 1 mm [.039 in] Centerline, Gold (Au), Surface Mount, Signal, Black, Free

Height

View on TE.com >



Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Receptacle Conn: Board-Board, Vertical, 84, 1mm



PCB Connector Type: PCB Mount Receptacle

PCB Mount Orientation: Vertical
Connector System: Board-to-Board

Number of Positions: 84

Centerline (Pitch): 1 mm [.039 in]

All Free Height Receptacle Conn: Board-Board, Vertical, 84, 1mm (42)

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	
Number of Columns	42
Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
PCB Mount Orientation Number of Positions	Vertical 84
Number of Positions	

Yes

Signal Characteristics

Differential Signaling



Body Features

body i odtaros	
Primary Product Color	Black
Contact Features	
Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.76 μm[29.92 μin]
Mating Tab Width	.63 mm[.024 in]
PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Shape & Form	Single Beam, Square
Contact Layout	Inline
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	1 A
Termination Features	
Rectangular Termination Post & Tail Width	.3 mm[.012 in]
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Termination Method to PCB	Surface Mount
Mechanical Attachment	
Mating Retention	Without
Mating Alignment Type	None
PCB Mount Retention Type	None
PCB Mount Alignment Type	Locating Posts
PCB Mount Retention	Without
PCB Mount Alignment	With
Mating Alignment	Without
Housing Features	
Mating Entry Location	Тор
Housing Material	Thermoplastic
Centerline (Pitch)	1 mm[.039 in]



Dimensions

Dimensions	
Stack Height	13 mm[.512 in]
Connector Width	3.81 mm[150 in]
Connector Height	8.4 mm[.33 in]
Connector Length	44.22 mm[1.74 in]
Usage Conditions	
Operating Temperature Range	-55 – 110 °C[-67 – 230 °F]
Operation/Application	
Circuit Application	Signal
Industry Standards	
Compatible With Agency/Standards Products	CSA, UL
Industry Standard	IEEE 1386
UL Rating	Listed

Packaging Features

UL Flammability Rating

Packaging Quantity	400
Packaging Method	Tape & Reel

CSA LR7189, UL E28476

UL 94V-0

Product Compliance

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

Compatible With Approved Standards Products

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: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Reflow solder capable to 260°C

Product Compliance Disclaimer

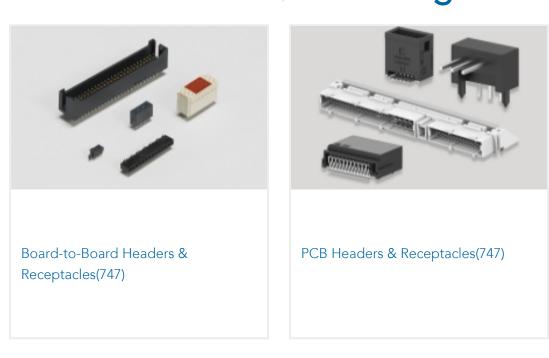


This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



Also in the Series | Free Height



Customers Also Bought

















Documents

Product Drawings

1FHR,84,30A/S,S,N,S13

English

CAD Files

Customer View Model

ENG_CVM_CVM_5120523-2_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5120523-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5120523-2_A.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 Stacking Connectors - 1.0mm Free Height (FH) (IEEE 1386) Connectors

English

Product Specifications

Application Specification

English