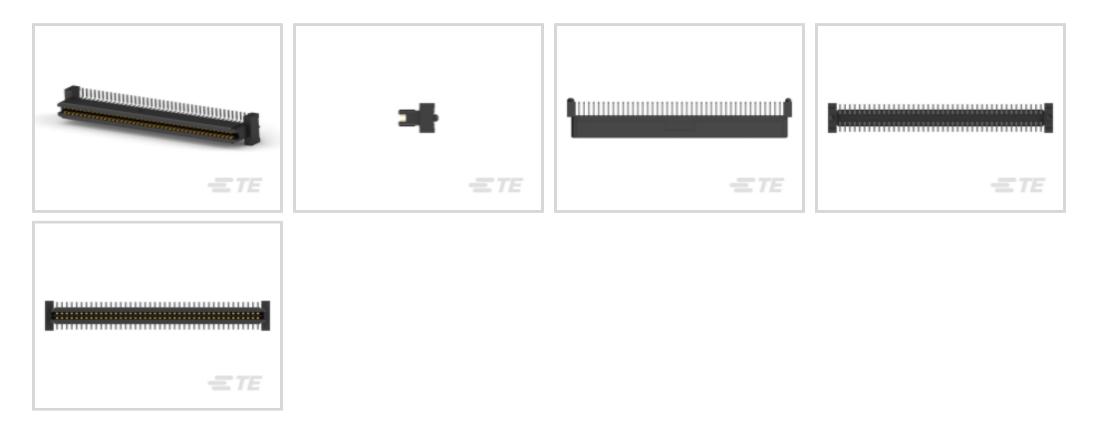


### Free Height

TE Internal #: 5120603-2 PCB Mount Receptacle, Vertical, Board-to-Board, 84 Position, 1 mm [.039 in] Centerline, Gold, Surface Mount, Black, Tape & Reel, Free Height

#### View on TE.com >

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



PCB Connector Assembly 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 Assembly Type	PCB Mount Receptacle			
Connector System	Board-to-Board			
Connector & Contact Terminates To	Printed Circuit Board			
Configuration Features				
Number of Columns	42			
Stackable	Yes			
PCB Mount Orientation	Vertical			
Number of Positions	84			
Board-to-Board Configuration	Parallel			
Electrical Characteristics				
Insulation Resistance	2 MΩ			
Operating Voltage	250 VAC			

PCB Mount Receptacle, Vertical, Board-to-Board, 84 Position, 1 mm [.039 in] Centerline, Gold, Surface Mount, Black, Tape & Reel, Free Height



# Signal Characteristics

•	
Differential Signaling	Yes
Body Features	
Primary Product Color	Black
Contact Features	
PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Layout	Inline
Mating Tab Width	.63 mm[.024 in]
Mating Tab Thickness	.2 mm[.008 in]
Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Single Beam, Square
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.00076 μm[30 μin]
Contact Type	Receptacle
Contact Current Rating (Max)	.8 A
Termination Features	
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Rectangular Termination Post & Tail Width	.3 mm[.012 in]
Termination Method to Printed Circuit Board	Surface Mount
Mechanical Attachment	
PCB Mount Alignment Type	Locating Posts
Mating Retention	Without
PCB Mount Retention Type	None
Mating Alignment	Without
Mating Alignment Type	None
PCB Mount Retention	Without
PCB Mount Alignment	With
Housing Features	
Mating Entry Location	Тор

PCB Mount Receptacle, Vertical, Board-to-Board, 84 Position, 1 mm [.039 in] Centerline, Gold, Surface Mount, Black, Tape & Reel, Free Height



Centerline (Pitch)	1 mm[.039 in]	
Housing Material	Thermoplastic	
Dimensions		
Connector Length	44.22 mm[1.74 in]	
Connector Height	7.37 mm[.29 in]	
Connector Width	3.81 mm[150 in]	
Stack Height	11 mm, 12 mm[.472 in]	
Usage Conditions		
Operating Temperature Range	-55 – 110 °C[-67 – 230 °F]	
Industry Standards		
UL Rating	Listed	
Compatible With Agency/Standards Products	CSA, UL	
Compatible With Approved Standards Products	CSA LR7189, UL E28476	
Industry Standard	IEEE 1386	
UL Flammability Rating	UL 94V-0	
Packaging Features		

Pac	kaging	Quantity
	5 5	)

450

# 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 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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		

PCB Mount Receptacle, Vertical, Board-to-Board, 84 Position, 1 mm [.039 in] Centerline, Gold, Surface Mount, Black, Tape & Reel, Free Height



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



PCB Mount Receptacle, Vertical, Board-to-Board, 84 Position, 1 mm [.039 in] Centerline, Gold, Surface Mount, Black, Tape & Reel, Free Height



TE Part #1SNA113690R2100 ECP31	TE Part #2205501-1 CA MICRO-MATCH MOW-MOW 20POS	TE Part #2407219-1 SBP091287WE4-2P	TE Part #4-1768004-3 LBC-SIE-PL00869-66x34mm
TE Part #4-1768031-9 LBG-U-02776	TE Part #5-1768031-0 LBG-U-02776/1		

# Documents

Product Drawings 1FHR,84,30A/S,S,N,S11,12

English

CAD Files Customer View Model ENG\_CVM\_CVM\_5120603-2\_A.2d\_dxf.zip

English

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_5120603-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5120603-2\_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