# 5177986-3 ACTIVE

### Free Height

TE Internal #: 5177986-3

PCB Mount Header, Vertical, Board-to-Board, 80 Position, .8 mm [. 031 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal,

Natural, Free Height

View on TE.com >



Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Plug Connector: Board-Board, Vertical, 80, 0.8mm



PCB Connector Assembly Type: PCB Mount Header

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

Number of Positions: 80

Centerline (Pitch): .8 mm [ .031 in ]

All Free Height Plug Connector: Board-Board, Vertical, 80, 0.8mm (19)

### **Features**

### **Product Type Features**

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
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
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Insulation Resistance	2 ΜΩ
Operating Voltage	100 VAC
Body Features	
Assembly Process Feature Material	Steel
Primary Product Color	Natural
Contact Features	
Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	2 μm[78.74 μin]
Mating Tab Width	.4 mm[.016 in]
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Finish	Matte
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.2 μm[8 μin]
Contact Type	Tab
Contact Current Rating (Max)	.5 A
Termination Features	
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Rectangular Termination Post & Tail Width	.25 mm[.01 in]
Termination Method to Printed Circuit Board	Surface Mount
Mechanical Attachment	
PCB Mount Alignment Type	Positioning Bosses
Locating Post Length	.5 mm[.02 in]
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Housing Features	
Mating Entry Location	Тор



Centerline (Pitch)	.8 mm[.031 in]
Housing Material	Matte
Dimensions	
Connector Height	5 mm[.197 in]
Stack Height	5 mm, 9 mm, 13 mm, 17 mm[.197 in][.354 in] [.512 in][.669 in]
Usage Conditions	
Housing Temperature Rating	High
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
Operation/Application	
Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal
Industry Standards	
UL Flammability Rating	UL 94V-0
Packaging Features	
	.5 in
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	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

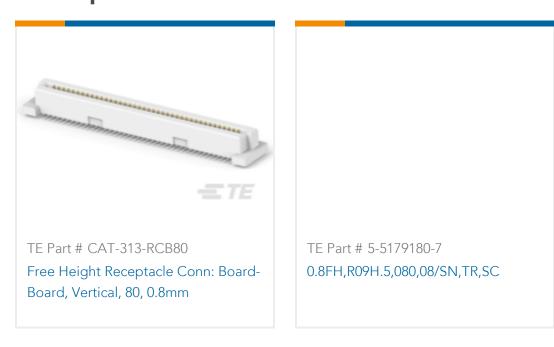
Product Compliance Disclaimer

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**

#### **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_5177986-3\_D.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5177986-3\_D.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5177986-3\_D.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 - 0.8mm Free Height (FH) Connectors

English

### **Product Specifications**

**Product Specification** 

English

**Product Specification** 

English

**Product Environmental Compliance** 

MD\_5177986-3\_0824201738\_dmtec

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PCB Mount Header, Vertical, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Natural, Free Height



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English

Agency Approvals

UL

English