# 5177984-6 - ACTIVE

#### Free Height

TE Internal #: 5177984-6 PCB Mount Header, Vertical, Board-to-Board, 140 Position, .031 in [. 8 mm] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Free Height

#### View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Plug Connector: Board-Board, Vertical, 140, 0.8mm



PCB Connector Assembly Type: PCB Mount Header

PCB Mount Orientation: Vertical

Connector System: Board-to-Board

Number of Positions: 140

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

All Free Height Plug Connector: Board-Board, Vertical, 140, 0.8mm (18)

### Features

#### Product Type Features

PCB Connector Assembly Type

Connector System

PCB Mount Header

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	140
Board-to-Board Configuration	Parallel
Electrical Characteristics	
Dielectric Withstanding Voltage (Max)	500 VAC
Insulation Resistance	2 ΜΩ
Operating Voltage	100 VAC
Body Features	
Primary Product Color	Natural

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## **Contact Features**

Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	2 μm[78.74 μin]
Mating Tab Width	.63 mm[.024 in]
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Square
Contact Mating Area Plating Material Finish	Matte
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Mating Area Plating Material	Gold
	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	Polarized
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	Thermoplastic
Dimensions	
Connector Height	5 mm[.197 in]

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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	None
Circuit Application	Signal
Industry Standards	
UL Flammability Rating	UL 94V-0
Packaging Features	
	.5 in
Packaging Quantity	7
Packaging Type	Box, Tube

## **Product Compliance**

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

EU ELV Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	EU RoHS Directive 2011/65/EU	Compliant
EU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, Cl, F, I < 900 ppm per	EU ELV Directive 2000/53/EC	Compliant
(224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC Halogen Content Low Halogen - Br, Cl, F, I < 900 ppm per	China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
	EU REACH Regulation (EC) No. 1907/2006	(224) Candidate List Declared Against: JUNE 2022 (224)
Free	Halogen Content	homogenous material. Also BFR/CFR/PVC

Solder Process Capability

Reflow solder capable to 260°C

#### Product Compliance Disclaimer

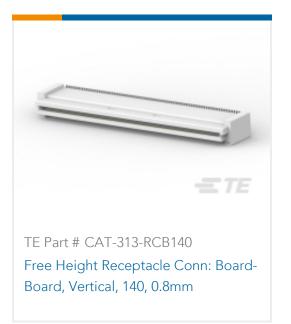
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

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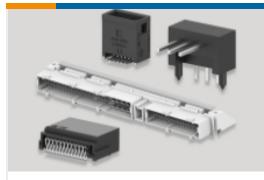


on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

# **Compatible Parts**



# Also in the Series | Free Height



PCB Headers & Receptacles(760)

# Customers Also Bought



## Documents

#### **Product Drawings**

**C** For support call+1 800 522 6752

PCB Mount Header, Vertical, Board-to-Board, 140 Position, .031 in [.8 mm] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Free Height



0.8FH,P05H.5,140,08/Sn,TU

English

**CAD** Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5177984-6\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5177984-6\_A.3d\_igs.zip

English

Customer View Model ENG\_CVM\_CVM\_5177984-6\_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 - 0.8mm Free Height (FH) Connectors

English

**Product Specifications** 

**Product Specification** 

English

**Product Specification** 

English

Product Environmental Compliance MD\_5177984-6\_09062011645

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