

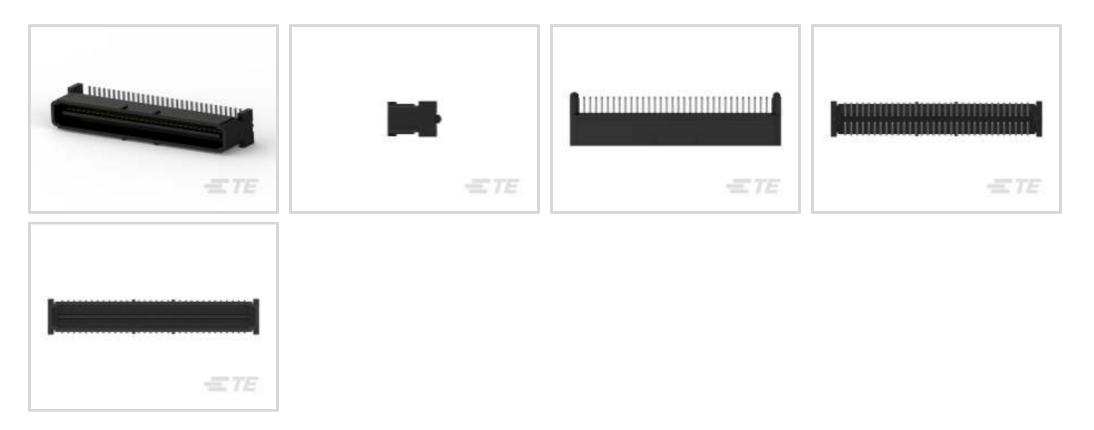
### Free Height

TE Internal #: 5146888-1 PCB Mount Header, Vertical, Board-to-Board, 64 Position, 1 mm [. 039 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Black, Free Height

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Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Plug Connector: Board-Board, Vertical, 64, 1mm



PCB Connector Assembly Type: PCB Mount Header

PCB Mount Orientation: Vertical

Connector System: Board-to-Board

Number of Positions: 64

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

### All Free Height Plug Connector: Board-Board, Vertical, 64, 1mm (40)

## 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	
Number of Columns	32
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	64
Board-to-Board Configuration	Parallel

## **Electrical Characteristics**

PCB Mount Header, Vertical, Board-to-Board, 64 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Black, Free Height



Insulation Resistance	2 MΩ
Operating Voltage	250 VAC
Signal Characteristics	
Differential Signaling	Yes
Body Features	
Primary Product Color	Black
Contact Features	
Contact Mating Area Length	4.27 mm[.168 in]
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
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 μm[29.92 μin]
Contact Type	Pin
Contact Current Rating (Max)	1 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

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PCB Mount Alignment	With
Housing Features	
Mating Entry Location	Тор
Centerline (Pitch)	1 mm[.039 in]
Housing Material	Thermoplastic
Dimensions	
Connector Length	34.22 mm[1.347 in]
Connector Height	8.38 mm[.329 in]
Connector Width	3.81 mm[150 in]
Stack Height	10 mm, 12 mm, 13 mm, 15 mm[.591 in]
Usage Conditions	
Operating Temperature Range	-55 – 110 °C[-67 – 230 °F]
Operation/Application	
Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal
Industry Standards	
UL Rating	Listed
Agency/Standard	CSA, UL
Approved Standards	CSA LR7189, UL E28476
Industry Standard	IEEE 1386
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	400
Packaging Type	Tape & Reel
<b>Product Compliance</b> 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 2023 (235)

PCB Mount Header, Vertical, Board-to-Board, 64 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Black, Free Height



Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Halogen Content

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-onreach

# **Compatible Parts**









# Also in the Series | Free Height



PCB Headers & Receptacles(759)

**Customers Also Bought** 

PCB Mount Header, Vertical, Board-to-Board, 64 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal, Black, Free Height





## Documents

**Product Drawings** 

1FHP,64,30A/S,S,C,S10,12,13,15

English

## **CAD** Files

**Customer View Model** ENG\_CVM\_CVM\_5146888-1\_A.2d\_dxf.zip

English

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_5146888-1\_A.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5146888-1\_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

**Product Environmental Compliance** Product Compliance Document

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English

Product Compliance Document

English