

5177984-6 ✓ ACTIVE



Free Height

TE Internal #: 5177984-6

PCB Mount Header, Vertical, Board-to-Board, 140 Position, .8 mm [.

031 in] 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 | 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 | 140 |
| Board-to-Board Configuration | Parallel |

Electrical Characteristics

| | |
|---------------------------------------|---------|
| Dielectric Withstanding Voltage (Max) | 500 VAC |
| Insulation Resistance | 2 MΩ |
| Operating Voltage | 100 VAC |

Body Features

| | |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|



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 | Top |
| Centerline (Pitch) | .8 mm[.031 in] |
| Housing Material | Thermoplastic |

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 | 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 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



Documents

Product Drawings

[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](#)

English

[MD_5177984-6_09062011645](#)

English