

Free Height

TE Internal #: 120527-2

PCB Mount Header, Vertical, Board-to-Board, 84 Position, 1 mm [. 039 in] Centerline, Fully Shrouded, Gold, Surface Mount, Signal,

Black, Free Height

View on TE.com >



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



PCB Connector Assembly Type: PCB Mount Header

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

Number of Positions: 84

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

All Free Height Plug Connector: Board-Board, Vertical, 84, 1mm (28)

Features

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	2 ΜΩ
Signal Characteristics	
Differential Signaling	Yes
Dimensions	
Stack Height	10 mm, 15 mm, 12 mm, 13 mm[.591 in]
Connector Width	3.81 mm[150 in]
Connector Height	8.35 mm[.328 in]
Connector Length	44.22 mm[1.74 in]
Packaging Features	
Packaging Quantity	400
Packaging Method	Tape & Reel

UL, CSA

IEEE 1386

Listed

Industry Standards

Industry Standard

UL Rating

Compatible With Agency/Standards Products



Compatible With Approved Standards Products	UL E28476, CSA LR7189
UL Flammability Rating	UL 94V-0
Operation/Application	
Assembly Process Feature	None
Circuit Application	Signal
Mechanical Attachment	
Mating Retention	Without
Mating Alignment Type	None
PCB Mount Retention Type	None
PCB Mount Alignment Type	Locating Posts
PCB Mount Retention	Without
PCB Mount Alignment	With
Mating Alignment	Without
Termination Features	
Rectangular Termination Post & Tail Width	.3 mm[.011 in]
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Termination Method to PCB	Surface Mount
Contact Features	
Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.76 μm[29.9212 μin]
Mating Tab Width	.63 mm[.024 in]
PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Shape & Form	Single Beam
Contact Layout	Inline
Contact Mating Area Length	2 mm
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material	Gold
Contact Type	Pin
Contact Current Rating (Max)	1 A



Housing Features

Mating Entry Location	Тор
Housing Material	Matte
Centerline (Pitch)	1 mm[.039 in]

Configuration Features

Number of Columns	42
Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	84

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

Body Features

Primary Produc	et Color	Black

Usage Conditions

Operating Temperature Range -55 – 110 °C[-6	7 – 230 °F]
---	-------------

Other

EU RoHS Compliance	Not Compliant
EU ELV Compliance	Compliant with Exemptions

Product Compliance

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

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold:



Pb (13% in Component Part)

Article Safe Usage Statements:

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

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



Board-to-Board Headers &

Receptacles(751)





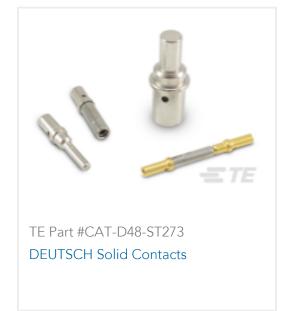
Customers Also Bought



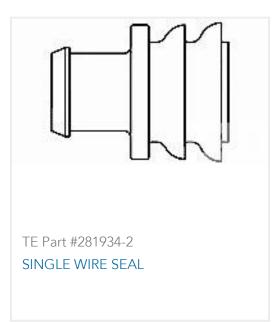














Documents

Product Drawings

1FHP,84,30A/P,S,N,S10,12,13,15

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_120527-2_F1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_120527-2_F1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_120527-2_F1.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Product Specifications

Application Specification

English