



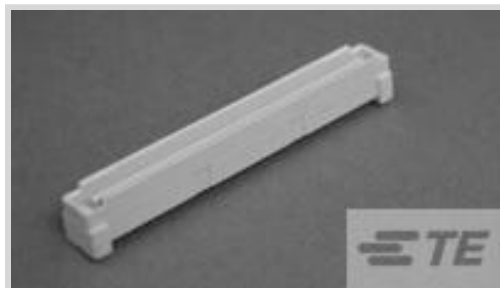
Free Height

TE Internal #: 2-5177986-3

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



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Board-to-Board**

All Free Height Plug Connector: Board-Board, Vertical, 80, 0.8mm (18)

Features

Packaging Features

	.5 in
Packaging Quantity	700
Packaging Method	Tape & Reel

Contact Features

	8 μin
PCB Contact Termination Area Plating Material Finish	Matte
Mating Tab Width	.4 mm[.016 in]
PCB Contact Termination Area Plating Material Thickness	2 μm[78.74 μin]
Contact Layout	Inline
Contact Base Material	Brass
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Gold
Contact Type	Tab
Contact Current Rating (Max)	.5 A

Other



EU RoHS Compliance	Compliant
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EU ELV Compliance	Compliant
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Product Type Features

PCB Connector Assembly Type	PCB Mount Header
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Connector System	Board-to-Board
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Header Type	Fully Shrouded
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Sealable	No
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Connector & Contact Terminates To	Printed Circuit Board
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Configuration Features

Board-to-Board Configuration	Parallel
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Stackable	Yes
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PCB Mount Orientation	Vertical
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Number of Positions	80
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Electrical Characteristics

Operating Voltage	100 VAC
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Insulation Resistance	2 MΩ
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Dielectric Withstanding Voltage (Max)	500 VAC
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Body Features

Assembly Process Feature Material	Steel
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Primary Product Color	Natural
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Termination Features

Rectangular Termination Post & Tail Width	.25 mm[.01 in]
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Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
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Termination Method to PCB	Surface Mount
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Mechanical Attachment

Mounting Alignment Feature Length	.5 mm[.02 in]
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Mating Alignment Type	Polarized
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PCB Mount Alignment Type	Positioning Bosses
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PCB Mount Retention	Without
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PCB Mount Alignment	With
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Connector Mounting Type	Board Mount
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Mating Alignment	With
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Housing Features

Mating Entry Location	Top
Housing Material	Matte
Centerline (Pitch)	.8 mm [.031 in]

Dimensions

Stack Height	7 mm, 19 mm, 15 mm, 11 mm [.433 in][.591 in][.748 in][.276 in]
Connector Height	7 mm [.276 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
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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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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



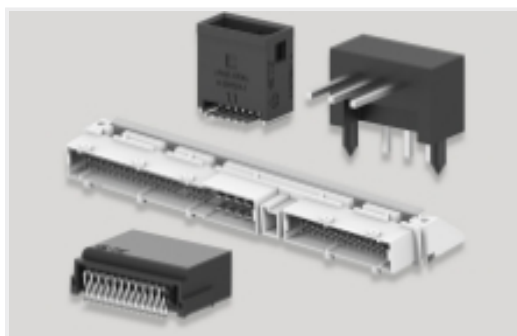
limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration 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



TE Part # CAT-313-RCB80
Free Height Receptacle Conn: Board-Board, Vertical, 80, 0.8mm

Also in the Series | Free Height



PCB Headers & Receptacles(751)

Customers Also Bought



TE Part #5-5179180-2
0.8FH,R09H.5,060,08/Sn,TR,SC



TE Part #2-5177986-2
0.8FH,P07H.5,060,08/Sn,TR,SC



TE Part #5177986-1
Free Height Plug Connector: Board-Board, Vertical, 40, 0.8mm



TE Part #5-5179180-1
Free Height Receptacle Conn: Board-Board, Vertical, 40, 0.8mm



Documents

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2-5177986-3_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-5177986-3_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-5177986-3_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

Agency Approvals

[UL](#)

English