

316229-3 ✓ ACTIVE



### Free Height

TE Internal #: 316229-3

PCB Mount Header, Right Angle, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Free Height

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **80**

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

## 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	Right Angle
Number of Positions	80

### Electrical Characteristics

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

### Body Features

Primary Product Color	Natural
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### Contact Features

PCB Contact Termination Area Plating Material Thickness	2 μm[78.74 μin]
Contact Layout	Inline



Mating Tab Width	.4 mm[.016 in]
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material Finish	Matte
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.3 $\mu\text{m}$ [11.81 $\mu\text{in}$ ]
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 Post & Tail Length	2.38 mm[.093 in]
Termination Method to PCB	Through Hole - Solder

### Mechanical Attachment

Mounting Alignment Feature Length	2 mm[.079 in]
PCB Mount Alignment Type	Housing Peg
PCB Mount Retention Type	Housing Peg
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	.8 mm[.031 in]
Housing Material	Matte

### Dimensions

Connector Height	5.12 mm[.202 in]
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### Usage Conditions

Housing Temperature Rating	High
Operating Temperature Range	-40 – 125 $^{\circ}\text{C}$ [-40 – 257 $^{\circ}\text{F}$ ]

### Operation/Application



Assembly Process Feature	None
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Circuit Application	Signal
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**Industry Standards**

UL Flammability Rating	UL 94V-0
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**Packaging Features**

	2 in
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Packaging Method	Box, Tube
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**Product Compliance**

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Wave solder capable to 265°C
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**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



### Customers Also Bought



### Documents

#### Product Drawings

0.8 FH PLUG ASSY 80P R/ANGLE

Japanese

#### CAD Files

3D PDF

English



### Customer View Model

[ENG\\_CVM\\_316229-3\\_F.2d\\_dxf.zip](#)

English

### Customer View Model

[ENG\\_CVM\\_316229-3\\_F.3d\\_igs.zip](#)

English

### Customer View Model

[ENG\\_CVM\\_316229-3\\_F.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

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### Datasheets & Catalog Pages

[Fine Pitch Stacking Connectors - 0.8mm Free Height \(FH\) Connectors](#)

English

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### Product Specifications

[Product Specification](#)

English