



Free Height

TE Internal #: 5179029-3  
PCB Mount Header, Vertical, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, Natural, Free Height

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**  
PCB Mount Orientation: **Vertical**  
Connector System: **Board-to-Board**  
Number of Positions: **80**  
Centerline (Pitch): **.8 mm [.031 in ]**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

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

Body Features

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

Contact Features



|                                                         |                 |
|---------------------------------------------------------|-----------------|
| 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 (Au)       |
| Contact Type                                            | Tab             |
| Contact Current Rating (Max)                            | .5 A            |

Termination Features

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

Mechanical Attachment

|                                   |                    |
|-----------------------------------|--------------------|
| Mounting Alignment Feature Length | .5 mm[.02 in]      |
| Mating Alignment Type             | Polarized          |
| PCB Mount Alignment Type          | Positioning Bosses |
| PCB Mount Retention               | Without            |
| PCB Mount Alignment               | With               |
| Mating Alignment                  | With               |

Housing Features

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

Dimensions

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Stack Height     | 6 mm, 10 mm, 14 mm, 18 mm[.236 in][.394 in][.551 in][.709 in] |
| Connector Height | 6 mm[.236 in]                                                 |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Housing Temperature Rating  | High                       |
| Operating Temperature Range | -40 – 125 °C[-40 – 257 °F] |



Operation/Application

|                          |      |
|--------------------------|------|
| Assembly Process Feature | None |
|--------------------------|------|

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                    |           |
|--------------------|-----------|
|                    | .5 in     |
| Packaging Quantity | 12        |
| Packaging Method   | 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: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<br>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>

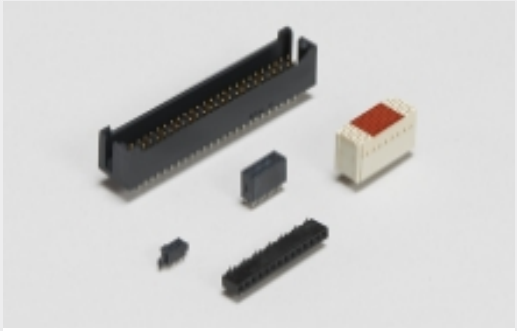
Compatible Parts



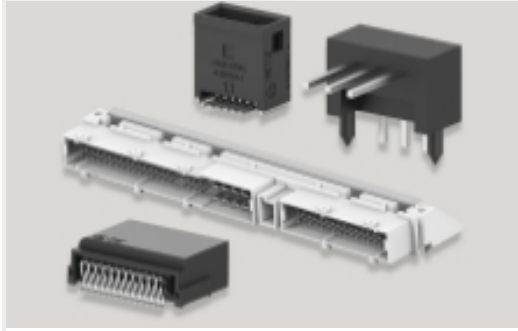


TE Part # CAT-313-RCB80  
Free Height Receptacle Conn: Board-Board, Vertical, 80, 0.8mm

Also in the Series | Free Height



Board-to-Board Headers & Receptacles(747)



PCB Headers & Receptacles(747)

Customers Also Bought



TE Part #2328461-2  
280 POS., CONNECTOR ASSEMBLY, SLIVER 2.0



TE Part #1-2340321-2  
ASSY STRADDLE MOUNT 168P 076 SLIVER 2.0



TE Part #2358256-1  
SBCE, 2X25P



TE Part #6-104069-3  
26 sys 50 hdr drra shrd sn



TE Part #254979-E  
STVCD 128 F ABCD VVV 7-00 EEUE 13,0 \* 2



TE Part #280510-2  
2X9P MODU II SHRD HDR, RT ANG, AU



TE Part #2332139-2  
RECEPT ASSY, 140 POS, VERT, SLIVER 2.0



TE Part #2-1622825-4  
RL73K 3A R56 5% 1K RL



TE Part #5-104069-2  
50 sys 50 hdr drra shrd sn



TE Part #2-5178238-2  
CHAMP.050 REC ASS'Y 20P PB-FRE



Documents

Product Drawings

0.8FH,P06H.5,080,08/Sn,TU

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_5179029-3\_B.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5179029-3\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5179029-3\_B.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