



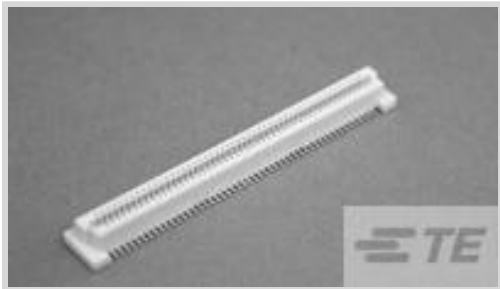
Free Height

TE Internal #: 1735482-6

PCB Mount Receptacle, Vertical, Board-to-Board, 140 Position, .8 mm [.031 in] Centerline, Gold (Au), Surface Mount, Signal, Natural, Free Height

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > Receptacle Connector: Free Height, PCB Mount, Vertical



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **140**

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

PCB Mount Orientation: **Vertical**

[All Receptacle Connector: Free Height, PCB Mount, Vertical \(21\)](#)

Features

Product Type Features

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

Configuration Features

|                              |          |
|------------------------------|----------|
| Stackable                    | Yes      |
| Number of Positions          | 140      |
| PCB Mount Orientation        | Vertical |
| Board-to-Board Configuration | Parallel |

Electrical Characteristics

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

Body Features

|                                   |         |
|-----------------------------------|---------|
| Assembly Process Feature Material | Steel   |
| 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                                   | Copper Alloy    |
| Mating Tab Thickness                                    | .2 mm[.008 in]  |
| PCB Contact Termination Area Plating Material           | Tin             |
| Contact Mating Area Plating Material Finish             | Matte           |
|                                                         | 8 µin           |
| Contact Mating Area Plating Material                    | Gold (Au)       |
| Contact Type                                            | Socket          |
| Contact Current Rating (Max)                            | .5 A            |

Termination Features

|                                               |                |
|-----------------------------------------------|----------------|
| Rectangular Termination Post & Tail Width     | .3 mm[.012 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]      |
| PCB Mount Alignment Type          | Positioning Bosses |
| Mating Alignment Type             | Polarization       |
| Connector Mounting Type           | Board Mount        |
| Mating Alignment                  | With               |
| PCB Mount Alignment               | With               |
| PCB Mount Retention               | Without            |

Housing Features

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

Dimensions

|                  |                                          |
|------------------|------------------------------------------|
| Connector Height | 17 mm[.669 in]                           |
| Stack Height     | 17 mm, 18 mm, 19 mm, 20 mm[.669 in][.709 |



in][.748 in][.787 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 |
|------------------------|----------|

Packaging Features

|                    |             |
|--------------------|-------------|
|                    | .5 in       |
| Packaging Quantity | 100         |
| Packaging Method   | Tape & Reel |

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 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                |
| Solder Process Capability                     | Reflow solder capable to 260°C                                                                                                  |

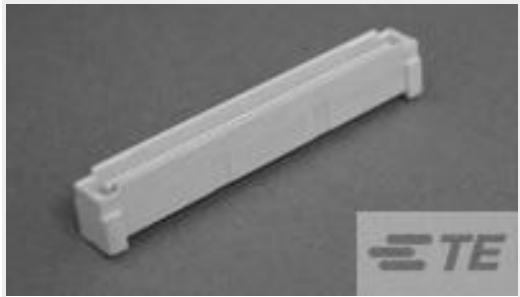
Product Compliance Disclaimer

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

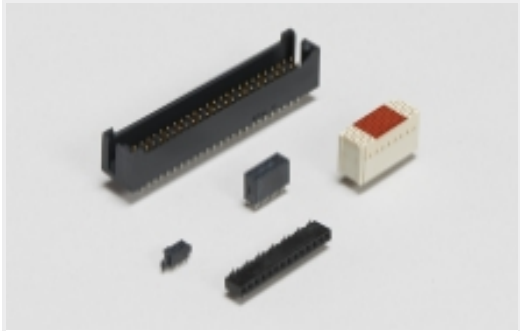


TE Part # 5179031-6  
0.8FH,P08H.5,140,08/Sn,TU

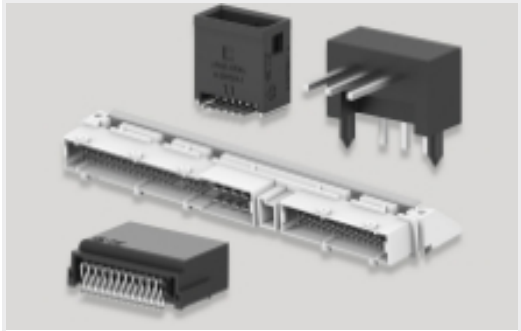


TE Part # CAT-313-PCB140  
Free Height Plug Connector: Board-Board, Vertical, 140, 0.8mm

Also in the Series | Free Height



Board-to-Board Headers & Receptacles(737)



PCB Headers & Receptacles(737)

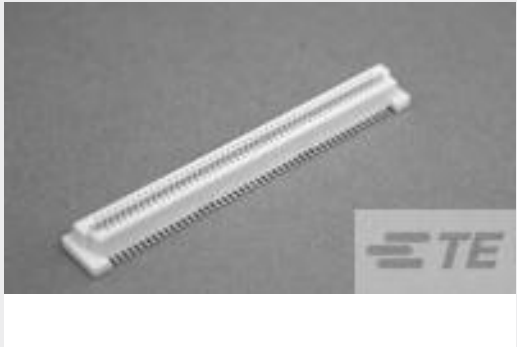
Customers Also Bought



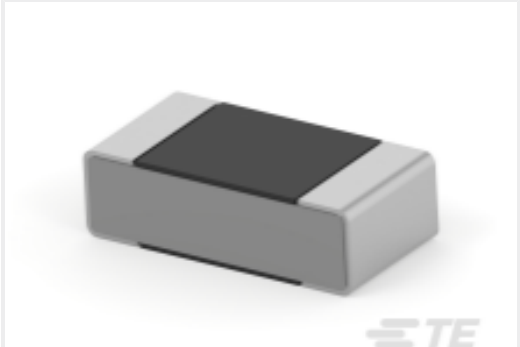
TE Part #803749-SF  
FN9222-1-06



TE Part #7-1676966-5  
SMW2 120R 5%



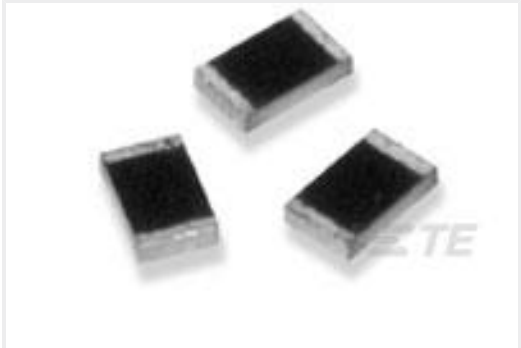
TE Part #1735482-4  
0.8FH,R17H.5,100,08/Sn,TR,SC



TE Part #8-1879125-7  
RN 0402 100R 0.1% 10PPM 5K RL



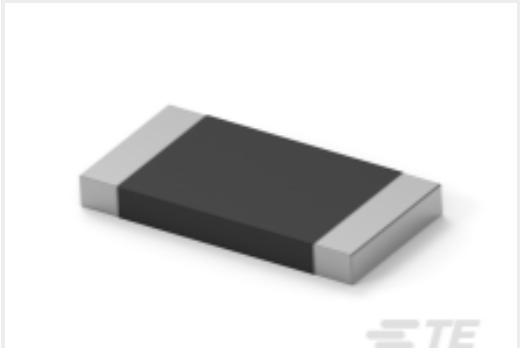
TE Part #8-1879233-5  
SMW5 330R 5%



TE Part #3-1879256-7  
RP 2B 150R 0.1% 15PPM CUT LENGTH



TE Part #5-2176347-6  
CRGCQ 2010 390K 1%



TE Part #8-2176422-0  
TLRP 2512 3.0W R200 1% 50PPM 4K RL



Documents

Product Drawings

0.8FH,R17H.5,140,08/Sn,TR,SC

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1735482-6\_A.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1735482-6\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1735482-6\_A.3d\_stp.zip

English

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Product Specifications

Product Specification

English

Product Specification

English