

5084616-5

✓ ACTIVE

**Free Height**

TE Internal #: 5084616-5

PCB Mount Receptacle, Vertical, Board-to-Board, 120 Position, .8 mm [.031 in] Centerline, Gold, Surface Mount, Signal, Natural, Free Height

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > Receptacle Connector: Free Height, PCB Mount for Parallel Stacking



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **120**

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

[All Receptacle Connector: Free Height, PCB Mount for Parallel Stacking \(27\)](#)

**Features****Product Type Features**

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

**Configuration Features**

|                              |          |
|------------------------------|----------|
| Stackable                    | Yes      |
| PCB Mount Orientation        | Vertical |
| Number of Positions          | 120      |
| Board-to-Board Configuration | Parallel |

**Electrical Characteristics**

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

|                   |         |
|-------------------|---------|
| Operating Voltage | 100 VAC |
|-------------------|---------|

#### Body Features

|                                   |         |
|-----------------------------------|---------|
| Assembly Process Feature Material | Steel   |
| Primary Product Color             | Natural |

#### Contact Features

|   |   |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 2 $\mu\text{m}$ [78.74 $\mu\text{in}$ ] |
| 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                                   |
| Contact Shape & Form                                    | Square                                  |
| PCB Contact Termination Area Plating Material           | Tin                                     |
| Contact Base Material                                   | Copper Alloy                            |
| Contact Mating Area Plating Material                    | Gold                                    |
| Contact Mating Area Plating Material Thickness          | .2 $\mu\text{m}$ [8 $\mu\text{in}$ ]    |
| Contact Type  | Socket                                  |
| Contact Current Rating (Max)                            | .5 A                                    |

#### Termination Features

|   |                |
|---|----------------|
| Rectangular Termination Post & Tail Thickness | .2 mm[.008 in] |
| Rectangular Termination Post & Tail Width     | .3 mm[.012 in] |
| Termination Method to Printed Circuit Board   | Surface Mount  |

#### Mechanical Attachment

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

#### Housing Features

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

## Housing Material

Matte

## Dimensions

Connector Height

13 mm [.512 in]

Stack Height

13 mm, 14 mm, 15 mm, 16 mm [.512 in] [.551 in] [.591 in] [.63 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

200

Packaging Type

Tape &amp; Reel

## Product Compliance

For compliance documentation, visit the product page on [TE.com](http://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 2023 (235)

Candidate List Declared Against: JUNE 2023 (235)

Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I &lt; 900 ppm per homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

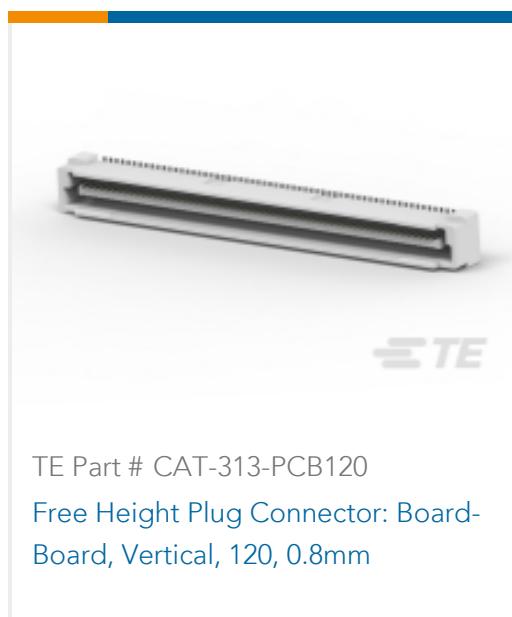
Reflow solder capable to 260°C

## 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-PCB120  
Free Height Plug Connector: Board-Board, Vertical, 120, 0.8mm



TE Part # 5179029-5  
0.8FH,P06H.5,120,08/Sn,TU

## Also in the Series | [Free Height](#)



PCB Headers & Receptacles(759)

## Customers Also Bought



TE Part #1318124-2  
Header Assembly: Wire-to-Board, 5A, gold plated



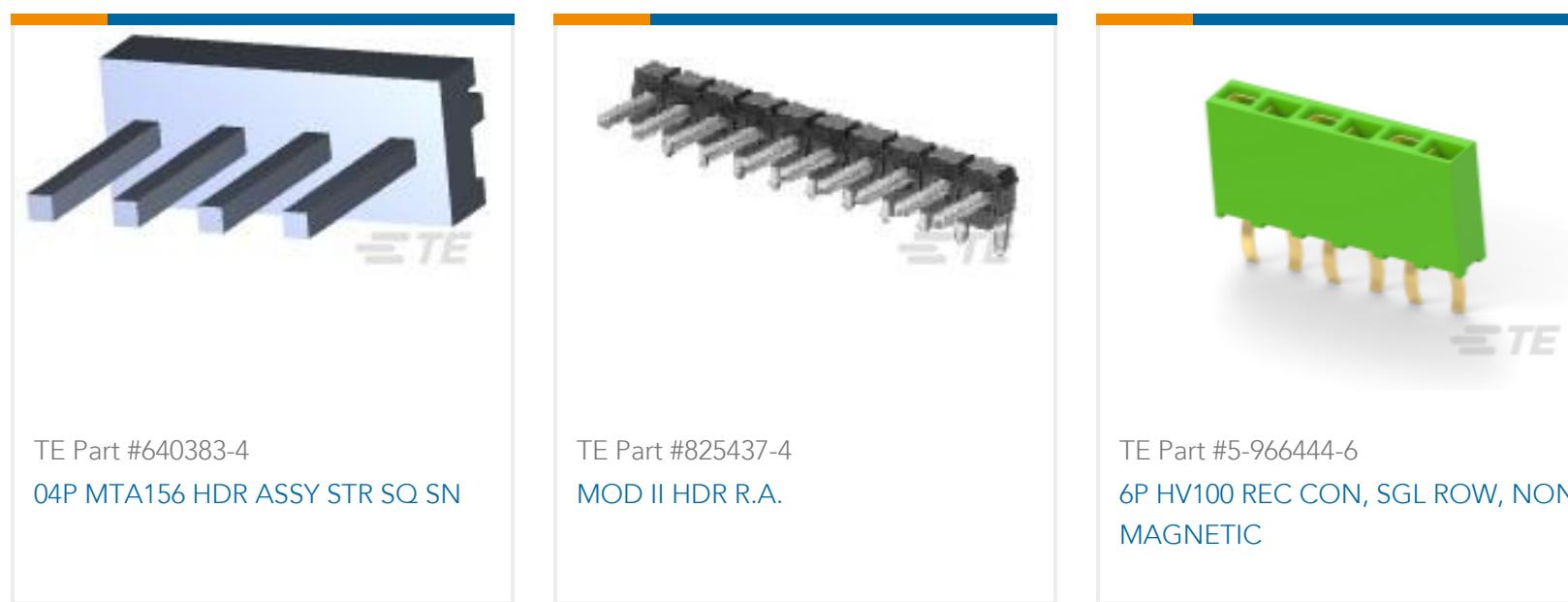
TE Part #178326-2  
DYNAMIC DBL ROW HDR ASSY 12P V



TE Part #770262-1  
06P UMNL SOK HDR ASSY 94VO



TE Part #2-1445085-4  
micro mnl hdr assy s/row au lf



## Documents

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5084616-5\\_R.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5084616-5\\_R.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5084616-5\\_R.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