



# BOARD-TO-BOARD HEADERS & RECEPTACLES



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)  
**0.8FH,R13H.5,140,08/Sn,TR,SC**  
0.8mm FH | .8mm FH

5084616-6  
TE Internal Number: 5084616-6

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Centerline **.031 mm [ .8 in ]**

Stack Height (mm) **13, 14, 15, 16**

Stack Height (in) **.63**

Number of Positions **140**

Packaging Method **Reel**

## Product Drawings

[RECEPTACLE ASSY 13H TYPE \(0.5 BOSS LENGTH\) FOR FH 0.8MM B-T-B CONN. ON TAPING](#)

PDF (TIFF AVAILABLE)  
English

[RECEPTACLE ASSY 13H TYPE \(0.5 BOSS LENGTH\) FOR FH 0.8MM B-T-B CONN. ON TAPING](#)

PDF (TIFF AVAILABLE)  
English

## CAD Files

[Customer View Model](#)

2D\_DXF.ZIP  
English

[3D PDF](#)

PDF  
3D

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

3D\_STP.ZIP  
English

## Catalog Pages/Data Sheets

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

PDF  
English

## Product Specifications

Product Specification

[Free Height 0.8 Mm Pitch Board-To-Board Connector \(SMT\)](#)

PDF  
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## Product Environmental Compliance

TE Material Declaration

[MD\\_5084616-6\\_112120132244\\_dmtec](#)

PDF  
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

|                            |   |   |
|----------------------------|---|---|
| Product Type Features      | Connector Style                             | <b>Receptacle</b>                                       |
|                            | Board-to-Board Configuration                | <b>Mezzanine</b>  |
|                            | PCB Mounting Orientation                    | <b>Vertical</b>   |
|                            | Row-to-Row Spacing                          | <b>2.4 mm [ .09432 in ]</b>                             |
|                            | Applies To                                  | <b>Printed Circuit Board</b>                            |
|                            | Product Type                                | <b>Connector</b>  |
|                            | Boss  | <b>With</b>   |
|                            | Series                                      | <b>Free Height</b>                                      |
| Configuration Features     | Number of Positions                         | <b>140</b>  |
|                            | Cover                                       | <b>With</b>   |
|                            | Preloaded                                   | <b>Yes</b>  |
|                            | Number of Rows                              | <b>2</b>  |
|                            | Stackable                                   | <b>Yes</b>  |
| Electrical Characteristics | Insulation Resistance (VAC)                 | <b>500</b>  |
|                            | Voltage (VAC)                               | <b>100</b>  |
|                            | Dielectric Withstanding Voltage (VAC)       | <b>500</b>  |
| Body Features              | Cover Material                              | <b>Steel</b>  |
|                            | Cover Type                                  | <b>Vacuum Cover</b>                                     |
|                            | Sealant                                     | <b>Without</b>  |
| Contact Features           | Contact Mating Area Plating Material        | <b>Gold</b>   |
|                            | Contact Mating Area Plating Thickness       | <b>8 <math>\mu</math>m [ 8 <math>\mu</math>in ]</b>     |
|                            | Contact Shape                               | <b>Square</b>   |
|                            | Contact Current Rating (A)                  | <b>.5</b>   |
|                            | Contact Type                                | <b>Socket</b>   |
|                            | Solder Tail Contact Plating Material        | <b>Tin over Nickel</b>                                  |
|                            | Contact Layout                              | <b>Inline</b>   |
|                            | Solder Tail Contact Plating Material Finish | <b>Matte</b>  |
|                            | Solder Tail Contact Plating Thickness       | <b>2 <math>\mu</math>m [ 78.74 <math>\mu</math>in ]</b> |
|                            | Contact Base Material                       | <b>Copper Alloy</b>                                     |

|                       |   |                                     |
|-----------------------|---|-------------------------------------|
| Termination Features  | Termination Method to PC Board  | <b>Surface Mount</b>                |
| Mechanical Attachment | Mating Alignment Type   | <b>Polarized</b>                    |
|                       | PCB Mount Retention   | <b>Without</b>                      |
|                       | PCB Mount Retention Type  | <b>None</b>                         |
|                       | PCB Mount Alignment Type  | <b>Positioning Bosses</b>           |
|                       | Locating Post Length (mm)   | <b>.5</b>                           |
|                       | Locating Post Length (in)   | <b>.0196</b>                        |
| Housing Features      | Centerline  | <b>.031 mm [ .8 in ]</b>            |
|                       | Housing Material  | <b>LCP (Liquid Crystal Polymer)</b> |
|                       | Housing Color   | <b>Natural</b>                      |
|                       | Housing Entry Style   | <b>Top</b>                          |
| Dimensions            | Stack Height (mm)   | <b>13, 14, 15, 16</b>               |
|                       | Stack Height (in)   | <b>.63</b>                          |
|                       | Height  | <b>13 mm [ .512 in ]</b>            |
| Usage Conditions      | Operating Temperature Range   | <b>-40 – 85 °C [ -40 – 185 °F ]</b> |
| Operation/Application | Pick and Place Cover  | <b>Without</b>                      |
|                       | Assembly Process Feature  | <b>None</b>                         |
|                       | For Use With  | <b>Plug Assembly</b>                |
| Industry Standards    | UL Flammability Rating  | <b>UL 94V-0</b>                     |
| Packaging Features    | Packaging Method  | <b>Reel</b>                         |
|                       | Packaging Quantity  | <b>200</b>                          |
| Product Compliance    | <a href="#">Statement of Compliance</a><br>PDF<br><a href="#">VIEW ALL PRODUCT COMPLIANCE</a> |                                     |





## CUSTOMERS ALSO BOUGHT

BOARD-TO-BOARD HEADERS  
& RECEPTACLES

HIGH SPEED BACKPLANE  
CONNECTORS

HIGH SPEED BACKPLANE  
CONNECTORS

BOARD-TO-BOARD HEADERS  
& RECEPTACLES

|   |   |  |   |
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|  | <p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Board-to-Board Headers &amp; Receptacles<br/>0.8mm FH   .8mm FH</p> <p><b>0.8FH, P06H.5, 140, 08/Sn, TU - 5179029-6</b><br/>TE INTERNAL NUMBER: 5179029-6</p> <p>✓ Active</p> | <p>Always EU RoHS/ELV Compliant</p> <p>Connector Style <b>Plug</b></p> <p>Centerline <b>.031 mm</b></p> <p>Stack Height <b>6 mm, 10 mm, 14 mm, 18 mm</b></p> <p>Number of Positions <b>140</b></p> <p>Packaging Method <b>Tube, Tube/Box</b></p> | <input checked="" type="checkbox"/> |
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|  | <p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Board-to-Board Headers &amp; Receptacles<br/>0.8mm FH   .8mm FH</p> <p><b>0.8FH, P06H.5, 140, 30/Sn, TR, SC - 6-5177986-6</b><br/>TE INTERNAL NUMBER: 6-5177986-6</p> <p>✓ Active</p> | <p>Always EU RoHS/ELV Compliant</p> <p>Connector Style <b>Plug</b></p> <p>Centerline <b>.031 mm</b></p> <p>Stack Height <b>6 mm, 10 mm, 14 mm, 18 mm</b></p> <p>Number of Positions <b>140</b></p> <p>Packaging Method <b>Tape &amp; Reel</b></p> | <input checked="" type="checkbox"/> |
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RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

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Connectors - Board-to-Board Headers &  
Receptacles  
0.8mm FH | .8mm FH  
**0.8FH, P05H.5, 140,  
08/Sn, TU - 5177984-6**  
TE INTERNAL NUMBER: 5177984-6

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Plug**

Centerline **.031 mm**

Stack Height **5 mm, 9 mm, 13  
mm, 17 mm**

Number of Positions **140**

Packaging Method **Tube,  
Tube/Box**