



# BOARD-TO-BOARD HEADERS & RECEPTACLES



Active

PRODUCT DRAWING  
English

3D PDF

TE CONNECTIVITY (TE)

0.8FH,R05H.5,120,08/Sn,TR,SC

0.8mm FH | .8mm FH

5177985-5

TE Internal Number: 5177985-5

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

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

Stack Height (mm) **5, 6, 7, 8**

Stack Height (in) **.315**

Number of Positions **120**

Packaging Method **Reel**

## Product Drawings

[RECEPTACLE ASSY 5H TYPE \(0.5 BOSS LENGTH\) FOR FH 0.8 B-T-B CONN. ON TAPING](#)

PDF (TIFF AVAILABLE)  
English

[RECEPTACLE ASSY 5H TYPE \(0.5 BOSS LENGTH\) FOR FH 0.8 B-T-B CONN. ON TAPING](#)

PDF (TIFF AVAILABLE)  
English

## CAD Files

3D PDF

PDF  
English

Customer View Model

3D\_IGS.ZIP  
English

Customer View Model

3D\_STP.ZIP  
English

Customer View Model

2D\_DXF.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  
English

## Product Environmental Compliance

TE Material Declaration

[MD\\_5177985-5\\_05282015733\\_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.

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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>
	Product Type	<b>Connector</b>
	Applies To	<b>Printed Circuit Board</b>
	Boss	<b>With</b>
	Series	<b>Free Height</b>

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Configuration Features	Number of Positions	<b>120</b>
	Cover	<b>With</b>
	Preloaded	<b>Yes</b>
	Number of Rows	<b>2</b>
	Stackable	<b>Yes</b>

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Electrical Characteristics	Insulation Resistance (VAC)	<b>500</b>
	Voltage (VAC)	<b>100</b>
	Dielectric Withstanding Voltage (VAC)	<b>500</b>

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Body Features	Cover Material	<b>Steel</b>
	Cover Type	<b>Vacuum Cover</b>
	Sealant	<b>Without</b>

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Contact Features	Contact Mating Area Plating Material	<b>Gold</b>
	Contact Mating Area Plating Thickness (µin)	<b>8</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 µm [ 78.74 µin ]</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>5, 6, 7, 8</b>
	Stack Height (in)	<b>.315</b>
	Height	<b>5 mm [ .197 in ]</b>
Usage Conditions	Operating Temperature Range	<b>-40 – 85 °C [ -40 – 185 °F ]</b>
	Housing Material Temperature	<b>High</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>700</b>
Product Compliance	<p><a href="#">Statement of Compliance PDF</a></p> <p><a href="#">VIEW ALL PRODUCT COMPLIANCE</a></p>	





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[BOARD-TO-BOARD HEADERS](#)

[MULTIPLE CONFIGURATION](#)

[BOARD-TO-BOARD HEADERS](#)

[MOTOR TERMINALS](#)

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Relation Type ▼


RELATIONSHIP  
**Mating Products**  
Used to identify Mating Parts

[See All Mating Products](#)

	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Board-to-Board Headers &amp; Receptacles 0.8mm FH   .8mm FH <b>0.8FH, P05H.5, 120, 08/Sn, TU - 5177984-5</b> TE INTERNAL NUMBER: 5177984-5</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>5 mm, 9 mm, 13 mm, 17 mm</b></p> <p>Number of Positions <b>120</b></p> <p>Packaging Method <b>Tube, Tube/Box</b></p>
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RELATIONSHIP  
**Mating Products**  
Used to identify Mating Parts

[See All Mating Products](#)

	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Board-to-Board Headers &amp; Receptacles 0.8mm FH   .8mm FH <b>0.8FH, P08H.5, 120, 08/Sn, TR, SC - 3-5177986-5</b> TE INTERNAL NUMBER: 3-5177986-5</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>8 mm, 12 mm, 16 mm, 20 mm</b></p> <p>Number of Positions <b>120</b></p> <p>Packaging Method <b>Tape &amp; Reel</b></p>
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RELATIONSHIP



PRODUCT - MATING PRODUCTS



Connectors - Board-to-Board Headers & Receptacles  
0.8mm FH | .8mm FH

**0.8FH, P07H.5, 120,  
08/Sn, TR, SC  
- 2-5177986-5**

TE INTERNAL NUMBER: 2-5177986-5

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Plug**

Centerline **.031 mm**

Stack Height **7 mm, 11 mm, 15 mm, 19 mm**

Number of Positions **120**

Packaging Method **Tape & Reel**