# 5-5179010-1 ACTIVE

### Free Height

TE Internal #: 5-5179010-1

PCB Mount Receptacle, Vertical, Board-to-Board, 40 Position, .031 in [.8 mm] Centerline, Gold, Surface Mount, Signal, Natural, Free

Height

View on TE.com >



Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Receptacle Conn: Board-Board, Vertical, 40, 0.8mm











PCB Connector Assembly Type: PCB Mount Receptacle

PCB Mount Orientation: Vertical
Connector System: Board-to-Board

Number of Positions: 40

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

All Free Height Receptacle Conn: Board-Board, Vertical, 40, 0.8mm (23)

### **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	40
Board-to-Board Configuration	Parallel

### **Electrical Characteristics**

Dielectric Withstanding Voltage (Max)	500 VAC
Insulation Resistance	2 ΜΩ



Contact Features  Contact Leyout Inline PCB Contact Termination Area Plating Material Thickness 2 µm(78.74 µm) Mating Tab Width 4 mm(1016 in) Mating Tab Thickness 2 mm(1008 in) PCB Contact Termination Area Plating Material Finish Matte Contact Mating Area Plating Material Finish Matte  Contact Mating Area Plating Material Finish Matte PCB Contact Termination Area Plating Material Finish Matte PCB Contact Termination Area Plating Material Finish Matte PCB Contact Termination Area Plating Material Finish Matte Contact Mating Area Plating Material Gold Contact Mating Area Plating Material Gold Contact Mating Area Plating Material Finish Gold Contact Mating Area Plating Material Finish Gold Contact Type Socket Contact Current Rating (Max) 5A  Termination Features  Rectangular Termination Post & Tail Thickness 2 mm(1008 in) Rectangular Termination Post & Tail Width 3 mm(1012 in) Termination Method to Printed Circuit Board Surface Mount  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses  Locating Post Length Without  Mating Alignment Type Polarization  PCB Mount Recention Without  PCB Mount Alignment  Mating Alignment Type Board Mount  Mount Alignment  Mount Features  Mating Citry Location  Top  Centerline (Pitch) 8 mm(1031 in)	Operating Voltage	100 VAC
Contact Layout Inline PCB Contact Lemination Area Plating Material Thickness 2µm(8.44 µin) Mating Tab Width 4 mm [016 in] Mating Tab Thickness 2 mm [008 in] PCB Contact Termination Area Plating Material Finish Matte Contact Mating Area Plating Material Finish Matte Contact Mating Area Plating Material Finish Matte PCB Contact Termination Area Plating Material Finish Matte PCB Contact Termination Area Plating Material Tin Contact Base Material Copper Alloy Contact Mating Area Plating Material Gold Contact Mating Area Plating Material Gold Contact Mating Area Plating Material Gold 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  PCB Mount Alignment Type Positioning Bosses Locating Post Length With Mating Alignment I lype Polarization PCB Mount Alignment Type Board Mount  Mating Alignment With  Mating Alignment Type Board Mount  Housing Features  Mating Entry Location Top Centerline (Pitch) 8 mm [031 in]	Body Features	
Contact Layout Inline  PCB Contact Termination Area Plating Material Thickness 2 µm[78.74 µin]  Mating Tab Width 4 mm (.016 in]  Mating Iab Thickness 2 mm (.008 in]  PCB Contact Termination Area Plating Material Finish Matte  Contact Mating Area Plating Material Finish Matte  Contact Mating Area Plating Material Finish Matte  PCB Contact Termination Area Plating Material  Contact Base Material Copper Alloy  Contact Mating Area Plating Material  Contact Type Socket  Contact Type Socket  Contact Current Rating (Max) .5 A  Termination Features  Rectangular Termination Post & Tail Thickness 2 mm (.008 in)  Termination Method to Printed Circuit Board Surface Mount  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses  Locating Post Length 5 mm (.02 in)  Mating Alignment Type Polarization  PCB Mount Alignment Type Polarization  PCB Mount Alignment Type Polarization  PCB Mount Alignment  Muting Alignment Type Board Mount  Housing Features  Mating Entry Location Top  Connector Mounting Type Board Mount  Housing Features  Mating Entry Location Top  Centerline (Pitch) 8 mm (.031 in)	Primary Product Color	Natural
PCB Contact Termination Area Plating Material Thickness 2 μm[/8.74 μin]  Mating Tab Width 4 mm[,016 in]  Mating Tab Thickness 2 mm[,008 in]  PCB Contact Termination Area Plating Material Finish Matte  Contact Mating Area Plating Material Finish Matte  PCB Contact Termination Area Plating Material  PCB Contact Termination Area Plating Material  Contact Base Material Copper Alloy  Contact Mating Area Plating Material  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  PCB Mount Alignment Type Positioning Bosses  Locating Post Length .5 mm[,02 in]  Mating Alignment Type Polarization  PCB Mount Retention Without  Method to Recently Mithout  PCB Mount Alignment Type Polarization  PCB Mount Alignment Type Board Mount  Mating Alignment Type Board Mount  PCB Mount Alignment Type Board Mount  Mount Alignment Type Board Mount  PCB Mount Alignment Type Board Mount  Mount Alignment Type Board Mount  Mount Alignment Type Board Mount  Mount PCB Mount Alignment Type Board Mount  Mount PCB Mount Alignment Type Board Mount  Housing Features  Mating Entry Location Top	Contact Features	
Mating Tab Width	Contact Layout	Inline
Mating Tab Thickness .2 mm[,008 in]  PCB Contact Termination Area Plating Material Finish Matte  Contact Mating Area Plating Material Finish Matte  PCB Contact Termination Area Plating Material Tinish Tin  Contact Base Material Copper Alloy  Contact Mating Area Plating Material Gold  Contact Mating Area Plating Material Gold  Contact Mating Area Plating Material Thickness .2 mm[8 jin]  Contact Type Socket  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  PCB Mount Alignment Type Positioning Bosses  Locating Post Length With  Mating Alignment Type Polarization  PCB Mount Retention Without  PCB Mount Retention Without  PCB Mount Alignment With  Connector Mounting Type Board Mount  Housing Features  Mating Lntry Location Top  Centerline (Pitch) .8 mm(,031 in)	PCB Contact Termination Area Plating Material Thickness	2 μm[78.74 μin]
PCB Contact Termination Area Plating Material Finish Matte  Contact Mating Area Plating Material Finish Matte  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 µm(8 µin)  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  PCB Mount Alignment Type Positioning Bosses  Locating Post Length .5 mm[.02 in]  Mating Alignment Type Polarization  PCB Mount Retention Without  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]	Mating Tab Width	.4 mm[.016 in]
Contact Mating Area Plating Material Finish PCB Contact Termination Area Plating Material Contact Base Material Contact Mating Area Plating Material Thickness 2 \( \mu\min(\text{Mp} \)           Contact Type Socket Contact Current Rating (Max) Termination Features  Rectangular Termination Post & Tail Thickness Rectangular Termination Post & Tail Width 3 mml_012 in] Termination Method to Printed Circuit Board  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses Locating Post Length Smml_02 in] Mating Alignment With Mating Alignment Type Polarization PCB Mount Retention Without PCB Mount Retention Without PCB Mount Alignment Connector Mounting Type Board Mount Housing Features  Mating Entry Location Top Centerline (Pitch) 8 mml_031 in]	Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material Contact Base Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Thickness Contact Type Socket Contact Current Rating (Max) SA  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  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses Locating Post Length Mating Alignment With Mating Alignment Type PCB Mount Retention Without PCB Mount Retention With Connector Mounting Type Board Mount Housing Features  Mating Entry Location Top Centerline (Pitch) 8 mm[.031 in]	PCB Contact Termination Area Plating Material Finish	Matte
Contact Base Material Gold Contact Mating Area Plating Material Gold Contact Mating Area Plating Material Thickness 2. µm[8 µin] 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  PCB Mount Alignment Type Positioning Bosses Locating Post Length .5 mm[.02 in] Mating Alignment Mating Alignment With Mating Alignment Type Polarization PCB Mount Retention Without PCB Mount Alignment PCB Mount Alignment With Connector Mounting Type Board Mount  Housing Features  Mating Fitry Location Top Centerline (Pitch) .8 mm[.031 in]	Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material Contact Mating Area Plating Material Thickness Contact Type Socket Contact Current Rating (Max) SA  Termination Features  Rectangular Termination Post & Tail Thickness Rectangular Termination Post & Tail Width 3 mm[.012 in] Termination Method to Printed Circuit Board  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses Locating Post Length Mating Alignment Type Polarization PCB Mount Retention With  Mount Retention With Connector Mounting Type Board Mount Housing Features  Mating Entry Location Centerline (Pitch)  8 mm[.031 in]	PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness .2 µm[8 µin]  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  PCB Mount Alignment Type Positioning Bosses  Locating Post Length .5 mm[.02 in]  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]	Contact Base Material	Copper Alloy
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  PCB Mount Alignment Type Positioning Bosses  Locating Post Length .5 mm[.02 in]  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]	Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)  Rectangular Termination Post & Tail Thickness  Rectangular Termination Post & Tail Width  Rectangular Termination Post & Tail Width  3 mm[.012 in]  Termination Method to Printed Circuit Board  Mechanical Attachment  PCB Mount Alignment Type  Positioning Bosses  Locating Post Length  Mating Alignment  Method Indian Alignment Type  Polarization  PCB Mount Retention  PCB Mount Alignment  With  Mating Alignment  With  Connector Mounting Type  Board Mount  Housing Features  Mating Entry Location  Top  Centerline (Pitch)  Summ[.031 in]	Contact Mating Area Plating Material Thickness	.2 μm[8 μin]
Termination Features  Rectangular Termination Post & Tail Thickness	Contact Type	Socket
Rectangular Termination Post & Tail Thickness	Contact Current Rating (Max)	.5 A
Rectangular Termination Post & Tail Width .3 mm[.012 in]  Termination Method to Printed Circuit Board Surface Mount  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses  Locating Post Length .5 mm[.02 in]  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]	Termination Features	
Termination Method to Printed Circuit Board  Mechanical Attachment  PCB Mount Alignment Type Positioning Bosses  Locating Post Length .5 mm[.02 in]  Mating Alignment  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) Surface Mount	Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Mechanical Attachment PCB Mount Alignment Type Positioning Bosses Locating Post Length .5 mm[.02 in] 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]	Rectangular Termination Post & Tail Width	.3 mm[.012 in]
PCB Mount Alignment Type Locating Post Length Mating Alignment Mating Alignment Type POlarization PCB Mount Retention PCB Mount Alignment With  Connector Mounting Type Mating Entry Location Top Centerline (Pitch) Positioning Bosses Somm[.02 in] With With With Polarization Without Without Top Board Mount Top  Somm[.031 in]	Termination Method to Printed Circuit Board	Surface Mount
Locating Post Length .5 mm[.02 in]  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]	Mechanical Attachment	
Mating Alignment 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)  With  8 mm[.031 in]	PCB Mount Alignment Type	Positioning Bosses
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) Polarization Polariza	Locating Post Length	.5 mm[.02 in]
PCB Mount Retention  PCB Mount Alignment  Connector Mounting Type  Housing Features  Mating Entry Location  Centerline (Pitch)  With  With  Board Mount  Top  Semm[.031 in]	Mating Alignment	With
PCB Mount Alignment With  Connector Mounting Type Board Mount  Housing Features  Mating Entry Location Top  Centerline (Pitch) Se mm[.031 in]	Mating Alignment Type	Polarization
Connector Mounting Type  Housing Features  Mating Entry Location  Centerline (Pitch)  Board Mount  Top  .8 mm[.031 in]	PCB Mount Retention	Without
Housing Features  Mating Entry Location  Top  Centerline (Pitch)  .8 mm[.031 in]	PCB Mount Alignment	With
Mating Entry Location Top  Centerline (Pitch) .8 mm[.031 in]	Connector Mounting Type	Board Mount
Centerline (Pitch)  .8 mm[.031 in]	Housing Features	
	Mating Entry Location	Тор
Housing Material Matte	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	None
Circuit Application	Signal

### **Industry Standards**

UL Flammability Rating	UL 94V-0
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### **Packaging Features**

	.5 in
Packaging Quantity	1100
Packaging Type	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: JUNE 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Not Yet Reviewed
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**







## Also in the Series | Free Height



## Customers Also Bought















DYNAMIC D5900 REC CONNECTOR

ASSY 4P-Y









### **Documents**

### **Product Drawings**

0.8FH,R13H.5,040,08/Sn,TU

English

### **CAD Files**

**Customer View Model** 

ENG\_CVM\_CVM\_5-5179010-1\_O.2d\_dxf.zip

English

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_5-5179010-1\_O.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5-5179010-1\_O.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

PCB Mount Receptacle, Vertical, Board-to-Board, 40 Position, .031 in [.8 mm] Centerline, Gold, Surface Mount, Signal, Natural, Free Height



Product Environmental Compliance

MD\_5-5179010-1\_0329201879\_dmtec

English

MD\_5-5179010-1\_0329201879\_dmtec

English