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#### STEP-Z

TE Internal #: 6-1761617-5 PCB Mount Receptacle, Vertical, Board-to-Board, 296 Position, 1.3 mm [.051 in] Centerline, Gold, Surface Mount - Solder Ball, Power & Signal, Natural

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: PCB Mount Receptacle

PCB Mount Orientation: Vertical

Connector System: Board-to-Board

Number of Positions: 296

Number of Rows: 2

## Features

### Product Type Features

PCB Connector Assembly Type

Connector System

Sealable

PCB Mount Receptacle

Board-to-Board

No



Connector & Contact Te	erminates To
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Printed Circuit Board

### **Configuration Features**

Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	296
Number of Rows	2
Board-to-Board Configuration	Parallel
Electrical Characteristics	
Dielectric Withstanding Voltage (Max)	500 VAC
Insulation Resistance	18 MΩ
Operating Voltage	48 VAC
Body Features	
Primary Product Color	Natural
Contact Features	
Contact Layout	Matrix

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Mating Tab Width	1 mm[.04 in]	
Mating Tab Thickness	.2 mm[.008 in]	
Contact Shape & Form	Dual Beam, Single Beam	
PCB Contact Termination Area Plating Material	Tin-Silver	
Contact Base Material	Copper Alloy	
Contact Mating Area Plating Material	Gold	
Contact Mating Area Plating Material Thickness	.76 μm[29.9212 μin]	
Contact Type	Socket	
Contact Current Rating (Max)	1 A	
Termination Features		
Termination Method to PCB	Surface Mount - Solder Ball	
Mechanical Attachment		
Mechanical Attachment Mating Retention	With	
Mating Retention	With	
Mating Retention Mating Alignment	With Without	
Mating Retention Mating Alignment PCB Mount Retention	With Without Without	

### Housing Features

Centerline (Pitch)	1.3 mm[.051 in]	
Housing Material	Thermoplastic	
Dimensions		
Connector Height	20.65 mm[.812 in]	
Row-to-Row Spacing	2 mm[.079 in]	
Stack Height	25 mm, 27 mm, 28 mm, 30 mm, 35 mm, 40 mm[1.575 in]	
PCB Thickness (Recommended)	1.57 mm[.8 in]	
Usage Conditions		
Operating Temperature Range	0-100 °C[32-212 °F]	
Operation/Application		
Assembly Process Feature	None	
Circuit Application	Power & Signal	
Industry Standards		

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09/23/2024 10:34AM | Page 2

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UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	20
Packaging Method	Tray
<b>Product Compliance</b> 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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
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**

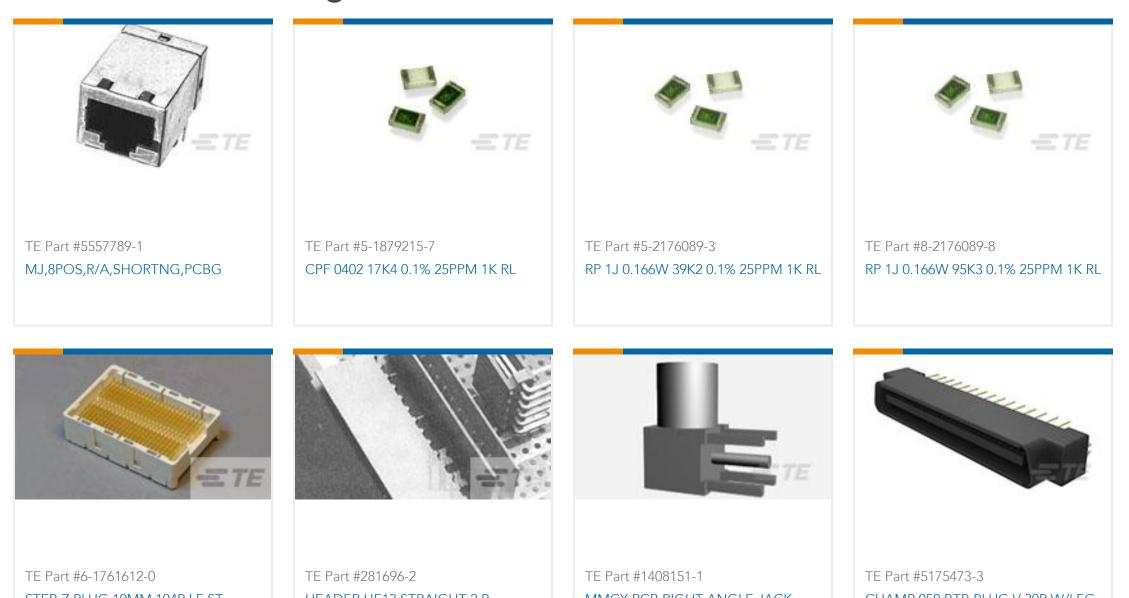


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# Customers Also Bought



STEP-Z PLUG 10MM 104P LF ST	HEADER HE13 STRAIGHT 2 P	MMCX PCB RIGHT ANGLE JACK THRU	CHAMP 050 BTB PLUG V 30P W/LEG
R(CIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
TE Part #5-5175473-1			
.050CL CHAMP VERT PLUG 20 POS			

### Documents

Product Drawings STEP-Z RCPT 15MM 296P LF ST

English

## CAD Files

### 3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_6-1761617-5\_A.2d\_dxf.zip

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English

Customer View Model ENG\_CVM\_CVM\_6-1761617-5\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6-1761617-5\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages STEP-Z Interconnection System

English

Product Specifications Application Specification

English