6-1761617-5 ACTIVE

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	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	296
Number of Rows	2
Board-to-Board Configuration	Parallel

Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 VAC
Insulation Resistance	18 ΜΩ
Operating Voltage	48 VAC

Body Features

Contact Features

Contact Layout	Matrix
----------------	--------



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 Printed Circuit Board	Surface Mount - Solder Ball
Mechanical Attachment	
Mating Retention	With
Mating Alignment	Without
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
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]
PCB Thickness (Recommended) Usage Conditions	
Usage Conditions	1.57 mm[.8 in]
Usage Conditions Operating Temperature Range	1.57 mm[.8 in]
Usage Conditions Operating Temperature Range Operation/Application	1.57 mm[.8 in] $0 - 100 ^{\circ}\text{C}[32 - 212 ^{\circ}\text{F}]$
Usage Conditions Operating Temperature Range Operation/Application Assembly Process Feature	1.57 mm[.8 in] $0 - 100 ^{\circ}\text{C}[32 - 212 ^{\circ}\text{F}]$ None



UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Quantity	20
Packaging Method	Tray

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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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



TE Part # 7-1761616-5 STEP-Z PLUG 25MM 296P LF ST



TE Part # 6-1761616-3 STEP-Z PLUG 13MM 296P LF ST



TE Part # 6-1761616-0 STEP-Z PLUG 10MM 296P LF ST



TE Part # 6-1761616-2 STEP-Z PLUG 12MM 296P LF ST





TE Part # 6-1761616-5 STEP-Z PLUG 15MM 296P LF ST



Customers Also Bought











TE Part #6-1761612-0 STEP-Z PLUG 10MM 104P LF ST



TE Part #281696-2 HEADER HE13 STRAIGHT 2 P



TE Part #1408151-1 MMCX PCB RIGHT ANGLE JACK THRU



TE Part #5175473-3 CHAMP 050 BTB PLUG V 30P W/LEG



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



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