



STEP-Z

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



EU RoHS Compliance: **Compliant**
EU ELV Compliance: **Compliant**
PCB Connector Assembly Type: **PCB Mount Receptacle**
PCB Mount Orientation: **Vertical**
Connector System: **Board-to-Board**

Features

Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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

Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	296
Number of Rows	2

Electrical Characteristics

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

Body Features



Primary Product Color	Natural
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Contact Features

Contact Mating Area Plating Material Thickness	.76 µm[29.9212 µin]
Mating Tab Width	1 mm[.04 in]
Contact Shape & Form	Dual Beam, Single Beam
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin-Silver
Contact Mating Area Plating Material	Gold
Contact Type	Socket
Contact Current Rating (Max)	1 A

Termination Features

Termination Method to PCB	Surface Mount - Solder Ball
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Mechanical Attachment

Mating Retention	With
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	Without

Housing Features

Housing Material	Thermoplastic
Centerline (Pitch)	1.3 mm[.051 in]

Dimensions

Row-to-Row Spacing	2 mm[.079 in]
Stack Height	18 mm, 20 mm, 30 mm, 17 mm, 15 mm, 25 mm[1.181 in]
PCB Thickness (Recommended)	1.57 mm[.8 in]
Connector Height	10.65 mm[.419 in]

Usage Conditions

Operating Temperature Range	0 – 100 °C[32 – 212 °F]
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Operation/Application

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Assembly Process Feature	None
Circuit Application	Power & Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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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: 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



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

TE Part # 7-1761616-0
STEP-Z PLUG 20MM 296P LF ST

Customers Also Bought

TE Part #DT04-2P
REC, 2P, GRY, N

TE Part #W2S
Wedgelocks: DEUTSCH DT

TE Part #0460-202-16141
DEUTSCH Solid Contacts

TE Part #282104-1
AMP SUPERSEAL 1.5MM,
CONNECTOR HOUSING

TE Part #DT06-2S
PLG, 2P, GRY, N

TE Part #281934-2
SINGLE WIRE SEAL

TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT

Documents

Product Drawings
STEP-Z RCPT 05MM 296P LF ST
English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_5-1761617-5_A.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_5-1761617-5_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5-1761617-5_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[STEP-Z Interconnection System](#)

English

Product Specifications

[Application Specification](#)

English