



STEP-Z

TE Internal #: 6-1761612-0  
PCB Mount Header, Vertical, Board-to-Board, 104 Position, 1.3 mm  
[.051 in] Centerline, Partially Shrouded, Gold, Surface Mount -  
Solder Ball

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**  
PCB Mount Orientation: **Vertical**  
Connector System: **Board-to-Board**  
Number of Positions: **104**  
Number of Rows: **2**

Features

Electrical Characteristics

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

Dimensions

Row-to-Row Spacing	2 mm[.079 in]
Stack Height	21 mm, 15 mm, 25 mm[.984 in]
PCB Thickness (Recommended)	1.57 mm[.8 in]
Connector Height	10.95 mm[.43 in]

Packaging Features

Packaging Quantity	30
Packaging Method	Package

Operation/Application

Assembly Process Feature	None
Circuit Application	Power & Signal

Mechanical Attachment

Mating Retention	With
PCB Mount Retention	Without
PCB Mount Alignment	Without



Connector Mounting Type	Board Mount
Mating Alignment	Without

Contact Features

Contact Mating Area Plating Material Thickness	.76 µm[29.9212 µin]
Mating Tab Width	1 mm[.04 in]
Contact Shape & Form	Square, 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	Tab
Contact Current Rating (Max)	1 A

Housing Features

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

Configuration Features

Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	104
Number of Rows	2

Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Partially Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Body Features

Primary Product Color	Natural
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Termination Features

Termination Method to PCB	Surface Mount - Solder Ball
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Usage Conditions

Operating Temperature Range	0 – 100 °C[32 – 212 °F]
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Industry Standards

UL Flammability Rating	UL 94V-0
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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 # 5-1761613-5  
STEP-Z RCPT 05MM 104P LF ST



TE Part # 6-1761613-5  
STEP-Z RCPT 15MM 104P LF ST



TE Part # 6-1761613-1  
STEP-Z RCPT 11MM 104P LF ST

Customers Also Bought



TE Part #5787962-1  
.8MM CHAMP STACK RCPT ASSY



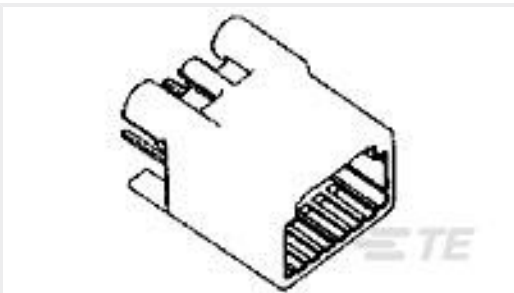
TE Part #1658945-1  
XFP CAGE ASSY w/o ELASTOMERIC GASKET



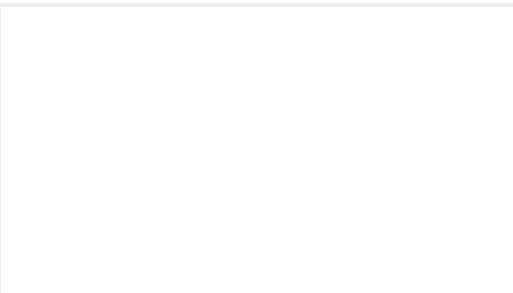
TE Part #2198235-3  
SFP+ Enhanced 1x6, Networking Heatsink



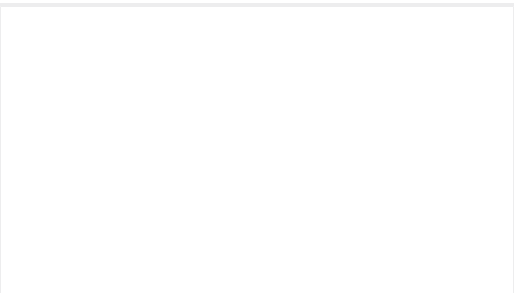
TE Part #2007198-2  
SFP+ 1x1 Cage Assembly, Press-Fit



TE Part #1473898-4  
025 12 POS CAP ASSY V



TE Part #1645680-1  
ZP HS3 DB 06R REC 030P RE PD



TE Part #1645681-1  
ZP HS3 DB 06R REC 030P LE PD

Documents

Product Drawings

STEP-Z PLUG 10MM 104P LF ST

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_6-1761612-0\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_6-1761612-0\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6-1761612-0\_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