

6-1761612-0 ✓ ACTIVE



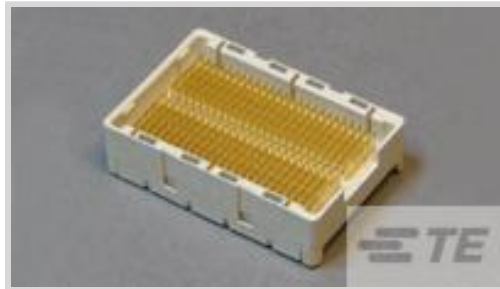
STEP-Z

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

#### 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

#### Configuration Features

Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	104
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
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#### 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, Square
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 $\mu\text{m}$ [29.9212 $\mu\text{in}$ ]
Contact Type	Tab
Contact Current Rating (Max)	1 A

### Termination Features

Termination Method to Printed Circuit Board	Surface Mount - Solder Ball
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### 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	10.95 mm[.43 in]
Row-to-Row Spacing	2 mm[.079 in]
Stack Height	15 mm, 21 mm, 25 mm[.984 in]
PCB Thickness (Recommended)	1.57 mm[.8 in]

### Usage Conditions

Operating Temperature Range	0 – 100 $^{\circ}\text{C}$ [32 – 212 $^{\circ}\text{F}$ ]
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### Operation/Application

Assembly Process Feature	None
Circuit Application	Power & Signal

### Industry Standards

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

Packaging Quantity	30
Packaging Type	Package

### 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 2023 (235) Candidate List Declared Against: JAN 2023 (233) 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 # 6-1761613-1  
STEP-Z RCPT 11MM 104P LF ST



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

## Customers Also Bought



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



TE Part #2170707-3  
CAGE ASSY, 1X6, QSFP28, SPRING,  
HS



TE Part #2170704-5  
CAGE ASSY, QSFP28 1X1, SPRING, HS



TE Part #2149730-1  
SFP+ 1x4 Cage, Heatsinks and  
Lightpipes



TE Part #2007304-1  
Heat sink Clip QSFP



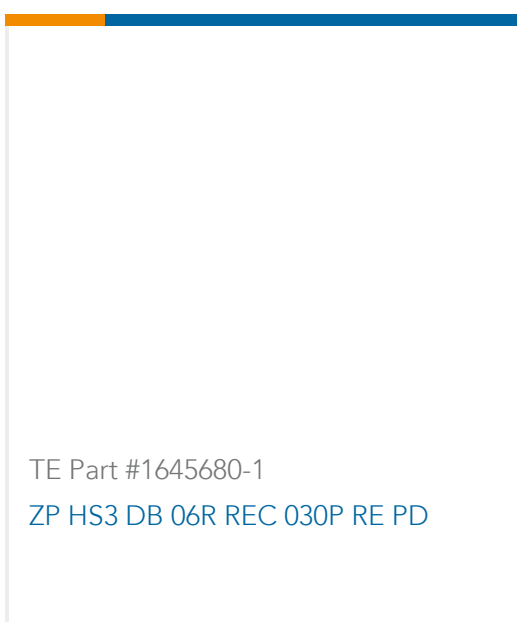
TE Part #1473898-4  
025 12 POS CAP ASSY V



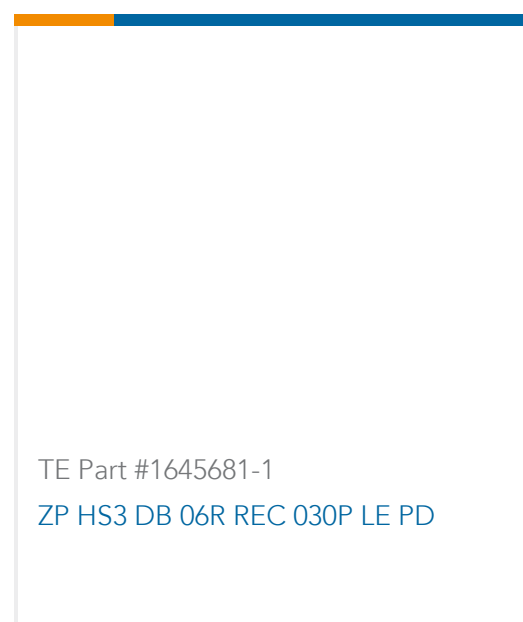
TE Part #2284170-1  
SFP+ ENHANCED 1X5 CAGE  
ASSEMBLY PRESS FI



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



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](#)

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English

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**Datasheets & Catalog Pages**

**STEP-Z Interconnection System**

English

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**Product Specifications**

**Application Specification**

English