# 3-6450550-8 ✔ ACTIVE

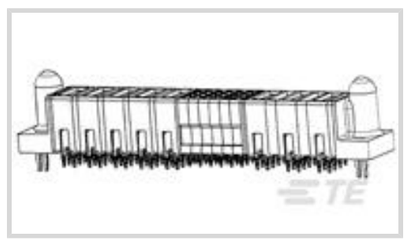
MULTI-BEAM

TE Internal #: 3-6450550-8

PCB Mount Receptacle, Vertical, Board-to-Board, 30 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold (Au)

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

Connector System: **Board-to-Board**

Number of Positions: **30**

Number of Rows: **4**

Centerline (Pitch): **2.54 mm, 6.35 mm [ .1 in, .25 in ]**

## Features

### Product Type Features

| | |
|---|---|
| Mixed & Hybrid Header | Yes |
| Connector Shape | Rectangular |
| PCB Connector Type | PCB Mount Receptacle |
| Connector System | Board-to-Board |
| Header Type | Fully Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type | Connector Assembly |

### Configuration Features

| | |
|---|---|
| Number of Columns | 12 |
| Number of Loaded Positions | 30 |
| Mating & Unmating Configuration | Sequencing |
| Number of Positions | 30 |
| Number of Rows | 4 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 6 |
| Number of Signal Positions | 24 |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 60 VDC, 200 VDC |

## Body Features

| | |
|---|---|
| Primary Product Color | Black |

## Contact Features

| | |
|---|---|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | 1.27 – 2.54 µm[50 – 100 µin] |
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 µm[100 – 200 µin] |
| Contact Layout | Matrix |
| Contact Base Material | Copper Alloy |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Type | Receptacle |
| Contact Current Rating (Max) | 42 A |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | .076 µm[3 µin] |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 3.43 mm[.135 in] |
| Termination Method to PCB | Through Hole - Press-Fit |

## Mechanical Attachment

| | |
|---|---|
| Mating Retention | Without |
| Mating Alignment Type | Guide Post |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |
| PCB Mount Alignment | Without |
| PCB Mount Retention | Without |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 2.54 mm, 6.35 mm[.1 in][.25 in] |
| Housing Material | High Temperature Thermoplastic Glass-Filled |

## Dimensions

| | |
|---|---|
| Connector Width | 11.94 mm[.47 in] |
| Connector Height | 12.7 mm[.5 in] |
| Connector Length | 72.39 mm[2.85 in] |
| Row-to-Row Spacing | 2.54 mm[.1 in] |

| | |
|---|---|
| PCB Thickness (Recommended) | 2.11 – 2.62 mm[.083 – .103 in] |

### Usage Conditions

| | |
|---|---|
| Operating Temperature (Max) | 105 °C[221 °F] |
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |

### Operation/Application

| | |
|---|---|
| Circuit Application | Power & Signal |

### Industry Standards

| | |
|---|---|
| Glow Wire Rating | High Temperature Part - Not Glow Wire |
| UL Flammability Rating | UL 94V-0 |

### Packaging Features

| | |
|---|---|
| Packaging Quantity | 33 |
| Packaging Method | Tray |

## Product Compliance

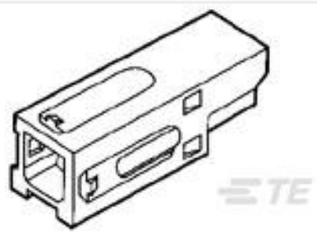
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| 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 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Wave solder capable to 265°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

## Customers Also Bought



TE Part #53894-5
HSG ASSY,PWR LK,SRS1,1 POS,YLW



TE Part #1-1734580-4
MOD-JacK,RJ45, 10P10C, SHD LP, 50u" Au



TE Part #1888251-3
Low Profile,RJ45,1x4,No Led's

TE Part #2169785-2
Z-Pack HS3 Plus 6Row Hdr 60Pos



TE Part #1-2170704-2
CAGE ASSY, QSFP28 1X1, SPRING, HS



TE Part #3-2339978-1
SFP56 STACKED 2X4 RECEPTACLE ASSEMBLY



TE Part #3-6600333-0
MBXL VERT HDR 1P+16S+1P

TE Part #2007806-3
IMP100S,H,V3P16C,UG,DEW39,5.5

TE Part #2127771-1
CABLE ASSY, 3071019H01

TE Part #2304670-2
zSFP+ 1x4 Cage Assembly, Press-Fit

## Documents

### Product Drawings

MBXL VERT RCPT 4P+24S+2P

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-6450550-8_2.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-6450550-8_2.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-6450550-8_2.3d_stp.zip

English

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

## Product Specifications

### Application Specification

English