# 1-6450550-5 ✔ ACTIVE

MULTI-BEAM

TE Internal #: 1-6450550-5

PCB Mount Receptacle, Vertical, Board-to-Board, 28 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold (Au)

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Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **28**

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 | 10 |
| Number of Loaded Positions | 28 |
| Number of Positions | 28 |
| Number of Rows | 4 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 4 |

| | |
|---|---|
| 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 | .76 µm[30 µin] |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 2.92 mm[.115 in] |
| Termination Method to PCB | Through Hole - Press-Fit |

## Mechanical Attachment

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

## 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 | 57.15 mm[2.25 in] |
| Row-to-Row Spacing | 2.54 mm[.1 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 | 44 |
| Packaging Method | 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 2025 (250)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Not applicable for solder process capability |

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 # 1-6450530-1
MBXL R/A HDR 2P+24S+2P

## Customers Also Bought



TE Part #66460-9
PIN,.062 DIA,.025 SQ POST,LP



TE Part #5-103669-8
09 MTE HDR SRST LATCH W/HLDWN



TE Part #499287-1
UNIVERSAL HEADER LATCH



TE Part #1734037-1
Champ 050 series,80pos,Au over PdNi



TE Part #2-1926739-5
AssyMinipak Hdl25s10pRARecptSc



TE Part #1982995-1
CROWN CLIP JUNIOR SCREW-MOUNT CONN



TE Part #2227670-7
zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X2



TE Part #1-6450869-3
MBXLE VERT RCPT 2P



TE Part #6469081-1
HMZD 3PR, RECEPTACLE ASSEMBLY



TE Part #841292-000
TTMS-2.4-9

## Documents

### Product Drawings

MBXL VERT RCPT 2P+24S+2P

English

## CAD Files

### Customer View Model

ENG_CVM_CVM_1-6450550-5_T.2d_dxf.zip

English

### 3D PDF

3D

### Customer View Model

ENG_CVM_CVM_1-6450550-5_T.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_1-6450550-5_T.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