

2-6450541-4 ✓ ACTIVE

#### MULTI-BEAM

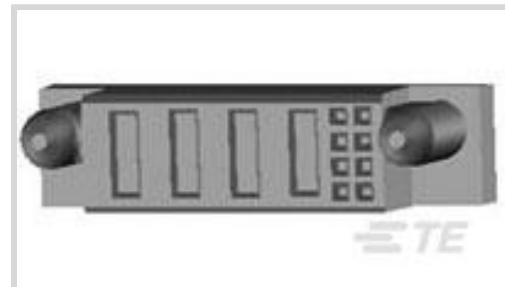
TE Internal #: 2-6450541-4

PCB Mount Receptacle, Vertical, Board-to-Board, 32 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Press-Fit, Signal, Black

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **32**

Number of Rows: **4**

#### Features

#### Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 60 VDC |
|-------------------|--------|

#### Dimensions

|                             |                                 |
|-----------------------------|---------------------------------|
| Row-to-Row Spacing          | 2.54 mm [.1 in]                 |
| Connector Width             | 11.94 mm [.47 in]               |
| PCB Thickness (Recommended) | 2.11 – 2.62 mm [.083 – .103 in] |
| Connector Height            | 12.7 mm [.5 in]                 |
| Connector Length            | 36.83 mm [1.45 in]              |

#### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 66   |
| Packaging Method   | Tray |

#### Industry Standards

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

#### Usage Conditions

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

#### Mechanical Attachment

|                  |         |
|------------------|---------|
| Mating Retention | Without |
|------------------|---------|

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

#### Termination Features

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

#### Contact Features

|   |   |
|---|---|
| Contact Underplating Material                           | Nickel  |
| Contact Underplating Material Thickness                 | 1.27 – 2.54 $\mu\text{m}$ [50 – 100 $\mu\text{in}$ ]  |
| Contact Mating Area Plating Material Thickness          | .076 $\mu\text{m}$ [3 $\mu\text{in}$ ]                |
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 $\mu\text{m}$ [100 – 200 $\mu\text{in}$ ] |
| Contact Layout  | Matrix  |
| Contact Base Material                                   | Copper Alloy  |
| PCB Contact Termination Area Plating Material           | Tin   |
| Contact Mating Area Plating Material                    | Gold  |
| Contact Type  | Receptacle  |
| Contact Current Rating (Max)                            | 42 A  |

#### Housing Features

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

#### Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Columns          | 8        |
| Number of Loaded Positions | 32       |
| Number of Signal Positions | 32       |
| PCB Mount Orientation      | Vertical |
| Number of Positions        | 32       |
| Number of Rows             | 4        |

#### Product Type Features

|                 |             |
|-----------------|-------------|
| Connector Shape | Rectangular |
|-----------------|-------------|

## PCB Connector Assembly Type

PCB Mount Receptacle

## Connector System

Board-to-Board

## Header Type

Fully Shrouded

## Sealable

No

## Connector &amp; Contact Terminates To

Printed Circuit Board

## Body Features

## Primary Product Color

Black

## Operation/Application

## Circuit Application

Signal

## Other

## EU RoHS Compliance

Compliant

## EU ELV Compliance

Compliant

## Product Compliance

For compliance documentation, visit the product page on [TE.com](http://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

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 # 2-6450121-1  
MBXL R/A HDR 32S

## Customers Also Bought



TE Part #1658694-9  
A/L UNIV HDR 24P ACT PIN



TE Part #2-1445087-3  
MICRO MNL HDR ASSY S/ROW AU LF



TE Part #2-640506-4  
36P MR HDR ASSY VO LF



TE Part #120953-3  
UPM EXPANDED RCPT ASSEMBLY



TE Part #350742-4  
09P UMNL PIN HDR ASSY 94VO LF

## Documents

### Product Drawings

[MBXL VERT RCPT 32S](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450541-4\\_E1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450541-4\\_E1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450541-4\\_E1.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

**Datasheets & Catalog Pages**

[2\\_PIECE\\_POWER\\_CONNECTORS\\_qrg\\_4-1773458-1](#)

English

**Product Specifications**

[Application Specification](#)

English

**Agency Approvals**

[UL](#)

English

[UL](#)

English