

**6450551-1**

✓ ACTIVE

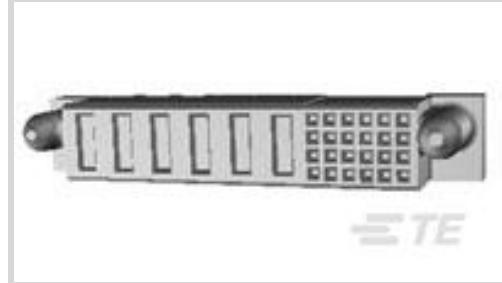
**MULTI-BEAM**

TE Internal #: 6450551-1

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

[View on TE.com >](#)

Connectors &gt; PCB Connectors &gt; PCB Headers &amp; Receptacles

PCB Connector Assembly Type: **PCB Mount Receptacle**PCB Mount Orientation: **Vertical**Connector System: **Board-to-Board**Number of Positions: **30**Number of Rows: **4****Features****Electrical Characteristics**

Operating Voltage	200 VDC, 60 VDC
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**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	69.85 mm [2.75 in]

**Packaging Features**

Packaging Quantity	33
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
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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 µm [50 – 100 µin]
Contact Mating Area Plating Material Thickness	.076 µm [3 µin]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm [100 – 200 µin]
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)	6.35 mm, 2.54 mm [.25 in] [.1 in]

#### Configuration Features

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

#### Product Type Features

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

### Body Features

Primary Product Color	Black
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### Operation/Application

Circuit Application	Power & Signal
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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](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	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>

## Compatible Parts



TE Part # 6450131-5  
MBXL R/A HDR 24S+6P



TE Part # 1-6450551-3  
MBXL VERT RCPT 24S+6P



TE Part # 1-6450131-4  
MBXL R/A HDR 24S+6P



TE Part # 1-6450121-6  
MBXL R/A HDR 24S+6P

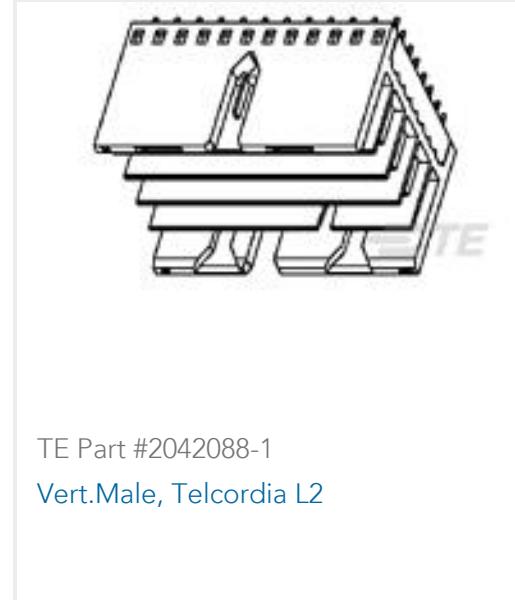


TE Part # 6450131-7  
MBXL R/A HDR 24S+6P

## Customers Also Bought



TE Part #2-1761606-1  
IDC LOW PRO HDR 6P VERT LG LAT



TE Part #2042088-1  
Vert.Male, Telcordia L2



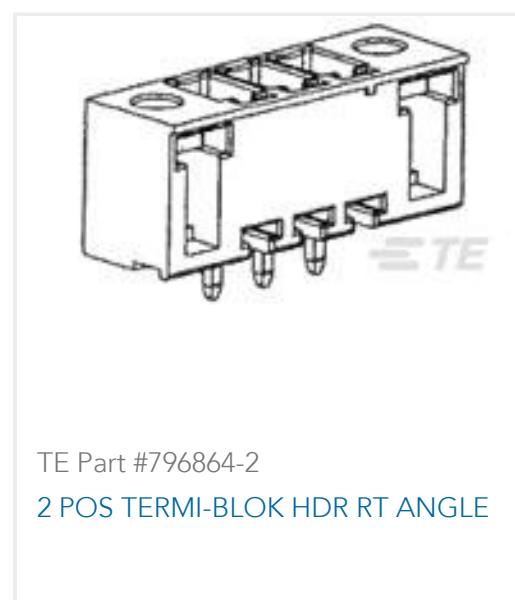
TE Part #160163-2  
RING TONGUE WITH IS 3.1-5.3 MM2  
TPBR



TE Part #1982738-1  
Female Connector Telcordia



TE Part #796858-2  
2 POS TERMI-BLOK PLUG RT ANGLE



TE Part #796864-2  
2 POS TERMI-BLOK HDR RT ANGLE



TE Part #170721-2  
SOLISTRAND RINGTONG



TE Part #320741  
TERMINAL,SOLIS R 2 7/16



## Documents

### Product Drawings

#### MBXL VERT RCPT 24S+6P

English

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### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_6450551-1\\_C4.2d\\_dxf.zip](#)

English

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_6450551-1\\_C4.3d\\_jgs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_6450551-1\\_C4.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

#### POWER\_CONNECTORS\_CATALOG\_SEC01\_BOARD\_TO\_BOARD

English

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

English

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### Product Specifications

#### Application Specification

English