



**MULTI-BEAM**

TE Internal #: 2-6450540-0

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**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **30**

Number of Rows: **4**

**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
Number of Signal Positions	24
Number of Power Positions	6
PCB Mount Orientation	Vertical
Number of Positions	30
Number of Rows	4

**Electrical Characteristics**

Operating Voltage	60 VDC, 200 VDC
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**Body Features**



Primary Product Color	Black
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### 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 (Au)
Contact Type	Receptacle
Contact Current Rating (Max)	42 A

### 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
PCB Mount Retention Type	Hold-Down
PCB Mount Alignment Type	Hold-Down
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

### Housing Features

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

### 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]
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Connector Length	69.85 mm[2.75 in]
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### Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
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Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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### Operation/Application

Circuit Application	Power & Signal
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### Industry Standards

Glow Wire Rating	High Temperature Part - Not Glow Wire
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UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Quantity	33
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Packaging Method	Tray
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Wave solder capable to 265°C
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#### 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 # 2-6600333-6  
MBXL VERT HDR 3P+24S+3P



TE Part # 6450130-6  
MBXL R/A HDR 3P+24S+3P



TE Part # 1-6450140-0  
MBXL VERT RCPT 3P+24S+3P



TE Part # 1-6450230-1  
MBXL R/A HDR 3P+24S+3P

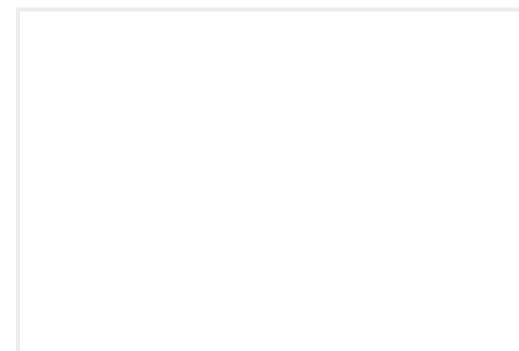
## Customers Also Bought



TE Part #5-6450860-2  
MBXLE VERT RCPT 2P+24S+2P



TE Part #5223955-2  
TE UPM Ver Receptacle 3P STD Power



TE Part #6450546-1  
MBXL VERT RCPT 4P+24S



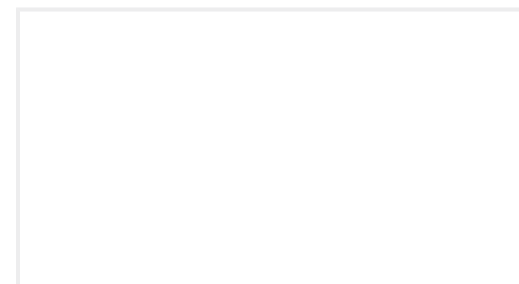
TE Part #7-2007830-3  
IMP,H,4PR16C,RGLeft EWG,5.5,Sn0.46



TE Part #6469002-1  
HM-ZD 4PR HDR 80P 5.2MM



TE Part #6-1393644-6  
V42254B1200B640=PC612 MESSERLE



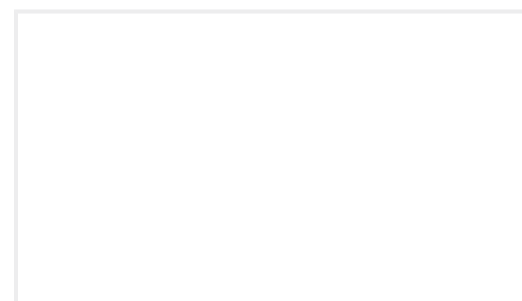
TE Part #6469154-1  
HMZD 3PAIR, HDR ASSY, 37.5MM MOD



TE Part #1609117-8  
10EGS1-2=F8241



TE Part #5100141-1  
2MM H.M. TYPE "B" PIN ASSY.



TE Part #154918-E  
ERMEZT FST GSE 9999 1 \*\*\* 10,8 FUEHRUN

## Documents

### Product Drawings

MBXL VERT RCPT 3P+24S+3P

English



### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450540-0\\_J2\\_c-2-6450540-0-j2.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450540-0\\_J2\\_c-2-6450540-0-j2.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450540-0\\_J2\\_c-2-6450540-0-j2.3d\\_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