

**MULTI-BEAM**

TE Internal #: 4-6450540-3

PCB Mount Receptacle, Vertical, Board-to-Board, 27 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold

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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: **27**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	74.93 mm [2.95 in]

**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 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

#### 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	27
Number of Signal Positions	20
Number of Power Positions	7
PCB Mount Orientation	Vertical
Number of Positions	27
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
<b>Body Features</b>	
Primary Product Color	Black
<b>Operation/Application</b>	
Circuit Application	Power & Signal
<b>Other</b>	
EU ELV Compliance	Compliant

## Product Compliance

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

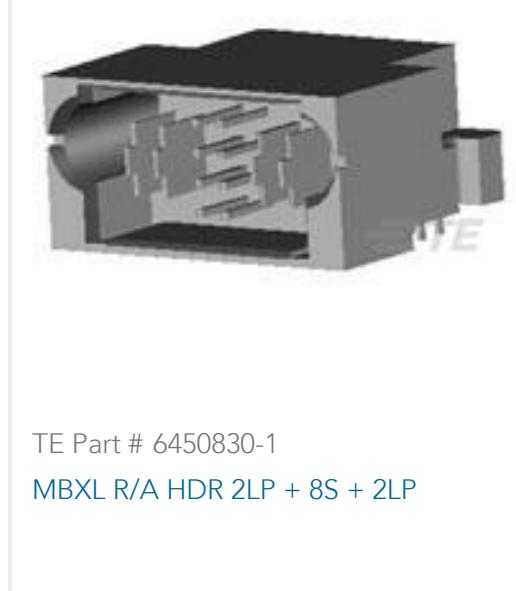
EU RoHS Directive 2011/65/EU	Not Yet Reviewed
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: DEC 2012 (138) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the

product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



TE Part # 6450830-1  
MBXL R/A HDR 2LP + 8S + 2LP

## Customers Also Bought



TE Part #1614770-4  
BDS 2 A 250 10R 10%



TE Part #ZPF00000000136485  
RECEPTACLE MALE FOR 12 PINS,  
CAL1,6



TE Part #EC9833-000  
ZHD-SCE-3.2-50-S1-4



TE Part #1-1415543-5  
RTE44110



TE Part #ASA158F12390235000  
623 PLUG



TE Part #ZPF00000000205373  
PLUG MALE ANG.90 CAL.20 - FXP



TE Part #YZ-KC-212751A-PY00  
TOOL DISMOUNTING - FXP2



TE Part #55992-1  
TERMINAL,AMPOWER R 2/0 5/16



TE Part #ZPF00000000205378  
CONTACT MALE ANG.90, CAL20,  
120MM2 - FXP



TE Part #ZPF00000000205388  
CONTACT FEMALE CAL.20, M12 - FXP

## Documents

### Product Drawings

[MBXL VERT RCPT 5P+20S+2P](#)

English

**CAD Files**[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_4-6450540-3\\_J3\\_c-4-6450540-3-j3.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-6450540-3\\_J3\\_c-4-6450540-3-j3.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_4-6450540-3\\_J3\\_c-4-6450540-3-j3.3d\\_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