

MULTI-BEAM

TE Internal #: 6450540-1
PCB Mount Receptacle, Vertical, Board-to-Board, 26 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold, Through Hole - Press-Fit

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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: **26**
Number of Rows: **4**

Features

Electrical Characteristics

Operating Voltage	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	48.9 mm[1.925 in]

Packaging Features

Packaging Quantity	55
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)	2.54 mm[.1 in]

Configuration Features

Number of Columns	8
Number of Loaded Positions	26
Number of Signal Positions	24
Number of Power Positions	2
PCB Mount Orientation	Vertical
Number of Positions	26
Number of Rows	4

Product Type Features

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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](#)>

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 # 6450500-5
MBXL VERT HDR 1P+24S+1P

TE Part # 1600236-4
PAN MT PLUG, MBXL, 1P+24S+1P

TE Part # 6600330-4
MBXL VERT HDR 1P+24S+1P

TE Part # 6450330-1
MBXL R/A HDR 1P+24S+1P

TE Part # 1600820-1
STL W/GUIDES, MBXL, 1P+24S+1P

Customers Also Bought

TE Part #T4112002041-000
M12,FEMALE,RA,A CODE,4P,PG9, GOLD

TE Part #6450160-3
MBXL R/A RCPT 1P+24S+1P

TE Part #6600330-4
MBXL VERT HDR 1P+24S+1P

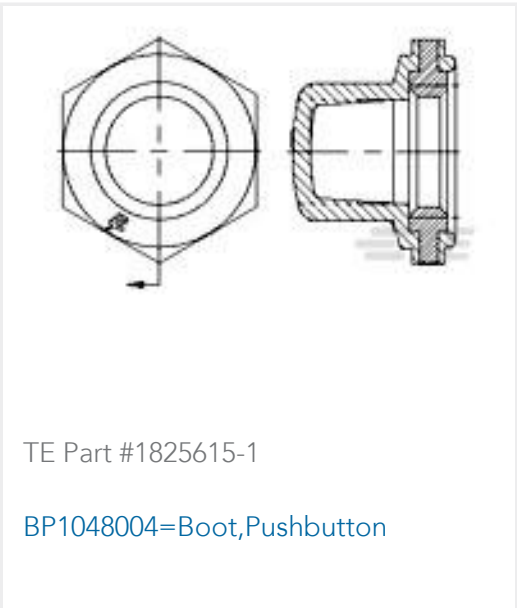
TE Part #1761394-1
DUST COVER, SFP, GANGED & STACKED

TE Part #3-1393247-5
W31-X2M1G-20=W23/W31

TE Part #1-350777-3
02P UMNL V0 PLUG HSG ORANGE

TE Part #L9000277-01
SMA Jack 50 Ohm .031 PCB Edge Mount

TE Part #T4132012041-000
M12,FRONT MOUNT,MALE,A,4P, SOLDER WIRE



Documents

Product Drawings

[MBXL VERT RCPT 1P+24S+1P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_6450540-1_F_c-6450540-1-f.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6450540-1_F_c-6450540-1-f.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6450540-1_F_c-6450540-1-f.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[POWER_CONNECTORS_CATALOG_SEC01_BOARD_TO_BOARD](#)

English

[MULTI-BEAM XL Cable Plug Assemblies Datasheet 6-1773442-7](#)

English

[2_PIECE_POWER_CONNECTORS_qrg_4-1773458-1](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English