



MULTI-BEAM

TE Internal #: 1-6450530-1
PCB Mount Header, Right Angle, Board-to-Board, 28 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**
PCB Mount Orientation: **Right Angle**
Connector System: **Board-to-Board**
Number of Positions: **28**
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	23.62 mm[.93 in]
PCB Thickness (Recommended)	1.35 mm[.053 in]
Connector Height	14.58 mm[.574 in]
Connector Length	57.15 mm[2.25 in]

Packaging Features

Packaging Quantity	44
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	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

Termination Post & Tail Length	3.05 mm[.12 in]
Termination Method to PCB	Through Hole - Press-Fit

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Size	.64mm
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Mating Square Post Dimension	.64 mm[.025 in]
PCB Contact Termination Area Plating Material Thickness	2.54 µm[100 µin]
Contact Shape & Form	Square
Contact Layout	Matrix
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold
Contact Type	Blade, Tab
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	10
Number of Loaded Positions	28



Number of Signal Positions	24
Number of Power Positions	4
PCB Mount Orientation	Right Angle
Number of Positions	28
Number of Rows	4

Product Type Features

Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
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	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 # 1-6450550-5
MBXL VERT RCPT 2P+24S+2P

TE Part # 7-6450550-1
MBXL VERT RCPT 2P+24S+2P

Customers Also Bought

TE Part #7-6450550-1
MBXL VERT RCPT 2P+24S+2P

TE Part #6888135-1
100 50SR R/A,REDESIGN

TE Part #1-2170704-3
CAGE ASSY, QSFP28 1X1, SPRING, CZ_HS

TE Part #2007857-2
IMP100S,H,V5P16C,LG,OEW39,4,9 CZ_HS

TE Part #2013310-3
SEMI-HARD TRAY DDR3 204P 9.2H STD Au0.76

TE Part #2180463-1
SFP+ Enhanced 1x4 Cage, Heatsink Opening

TE Part #5-1571363-1
8 POS 2MM HDR ASSY,DR,VERT,SMT, LF

TE Part #6116794-1
RCPT ASSY,LPF,RTA,50P,BD,ILL



TE Part #2007822-2
[IMP100S,H,V4P10C,UG,DEW39,4.9](#)



TE Part #2007855-3
[IMP100S,H,V5P10C,UG,REW39,5.5](#)

Documents

Product Drawings

[MBXL R/A HDR 2P+24S+2P](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_1-6450530-1_2.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-6450530-1_2.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-6450530-1_2.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English