



MULTI-BEAM

TE Internal #: 1-6450162-2  
PCB Mount Receptacle, Right Angle, Board-to-Board, 16 Position,  
2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold  
(Au)

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**  
PCB Mount Orientation: **Right Angle**  
Connector System: **Board-to-Board**  
Number of Positions: **16**  
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	7
Number of Loaded Positions	16
Number of Signal Positions	12
Number of Power Positions	4
PCB Mount Orientation	Right Angle



Number of Positions	16
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	.76 µm[30 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 - Solder

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
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Centerline (Pitch)

2.54 mm, 6.35 mm[.1 in][.25 in]

Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
Connector Width	20.83 mm[.82 in]
PCB Thickness (Recommended)	2.11 – 2.62 mm[.083 – .103 in]
Connector Height	11.94 mm[.47 in]
Connector Length	49.53 mm[1.95 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power & Signal
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Industry Standards

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

Packaging Features

Packaging Quantity	55
Packaging Method	Tray

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 3-6450332-2  
MBXL R/A HDR 4P+12S

Customers Also Bought



TE Part #2291672-1  
SFP+ 1X1 CAGE ASSEMBLY, LIGHT PIPE



TE Part #3-6318490-6  
.5FHR04H,220,S,GIG,08/Sn,HT,NSYes



TE Part #2304921-1  
ZSFP+ 1X8 CAGE ASSEMBLY, PRESS-FIT



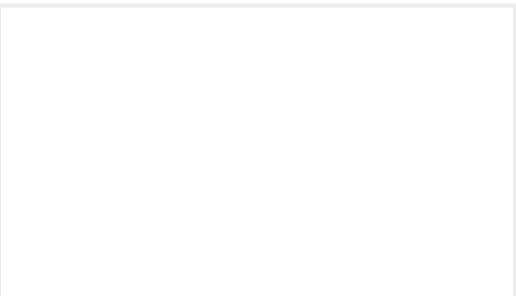
TE Part #2170704-7  
CAGE ASSY, QSFP28 1X1, SPRING, HS



TE Part #2110819-1  
QSFP+ Enh EVERCLEAR PT Conn



TE Part #5555140-4  
MJ,LPF,R/A,6P/6C,SHLD,PNL GRD



TE Part #2-2232980-3  
03P MTA100 HDR ASSY SM 30AU W RR



TE Part #6450874-1  
MBXLE R/A RCPT,A/C PASS THRU 4ACP+12S+3P



Documents

Product Drawings

MBXL R/A RCPT 4P+12S

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-6450162-2\_E1.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-6450162-2\_E1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-6450162-2\_E1.3d\_stp.zip

English

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

Product Specifications

Application Specification

English