



MULTI-BEAM

TE Internal #: 1892301-1  
PCB Mount Header, Right Angle, Board-to-Board, 23 Position, 2.54 mm / 5.08 mm [.1 in / .2 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder

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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: **23**  
Number of Rows: **4**

Features

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

Configuration Features

Number of Power Positions	11
Number of Columns	14
Number of Loaded Positions	20
Number of Signal Positions	12
PCB Mount Orientation	Right Angle
Number of Positions	23



Number of Rows	4
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Electrical Characteristics

Operating Voltage	60 VAC
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Body Features

Primary Product Color	Black
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Contact Features

Contact Size	.64mm
Mating Square Post Dimension	.64 mm[.025 in]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Layout	Matrix
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Shape & Form	Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Type	Blade, Tab
Contact Current Rating (Max)	42 A

Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	3.43 mm[.135 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Hold-Down
Mating Retention	Without
PCB Mount Retention Type	Hold-Down
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount



Housing Features

Centerline (Pitch)	2.54 mm, 5.08 mm [.1 in] [.2 in]
Housing Material	High Temperature Thermoplastic Glass-Filled

Dimensions

Connector Length	105.41 mm [4.15 in]
Connector Height	14.58 mm [.574 in]
Connector Width	23.62 mm [.93 in]
Row-to-Row Spacing	2.54 mm [.1 in]
PCB Thickness (Recommended)	2.11 – 2.62 mm [.083 – .103 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	22
Packaging Method	Tray

Other

Position Locations Omitted	P3, P6, P9
Number of Blocked Positions	3

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

Customers Also Bought

TE Part #175217-2  
DYNAMIC 3000 CONTACT

TE Part #1-1393210-3  
T9AS1D12-12

TE Part #1676966-9  
SMW2 R22 5%

TE Part #1623797-1  
SQZ10 10R 5%



TE Part #9-1393239-8  
RT314024

TE Part #6-1393243-8  
RT424024

TE Part #1-1586037-0  
10P VERT HDR VAL-U-LOK V2

TE Part #1-796636-2  
12POS 5.08MM CE VRT HDR,TRM BK

TE Part #4-1393117-6  
KUP-11D15-36=KU

Documents

Product Drawings

MBXL R/A HDR DB 12S+11P

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1892301-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1892301-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1892301-1\_A.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