# 1892301-1 ✓ ACTIVE

#### **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
Electrical Characteristics	
Operating Voltage	60 VAC
Body Features	
Primary Product Color	Black
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



# Customers Also Bought





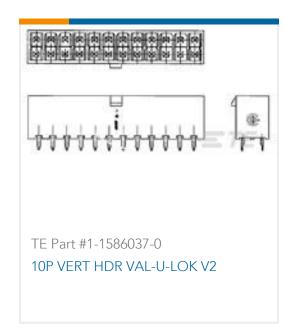
















#### **Documents**

#### **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