



TE Internal #: 3-6450832-8

PCB Mount Header, Right Angle, Board-to-Board, 31 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 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: **31**

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	7
Number of Columns	13
Number of Loaded Positions	31
Number of Signal Positions	24
PCB Mount Orientation	Right Angle
Number of Positions	31
Number of Rows	4



Electrical Characteristics

Operating Voltage	60 VAC, 200 VAC, 300 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	.076 µm[3 µin]
Contact Type	Blade, Tab
Contact Current Rating (Max)	75 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, 6.35 mm, 7.62 mm [.1 in][.25 in][.3 in]
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Housing Material	High Temperature Thermoplastic Glass-Filled
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Dimensions

Connector Length	75.31 mm[2.965 in]
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Connector Height	14.58 mm[.574 in]
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Connector Width	23.62 mm[.93 in]
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Row-to-Row Spacing	2.54 mm[.1 in]
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PCB Thickness (Recommended)	2.11 – 2.62 mm[.083 – .103 in]
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Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
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Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

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

Packaging Quantity	33
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Packaging Method	Tray
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Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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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
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Wave solder capable to 265°C
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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>

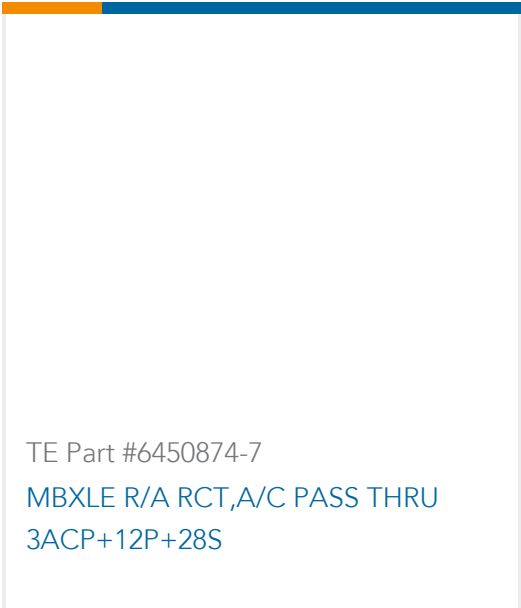
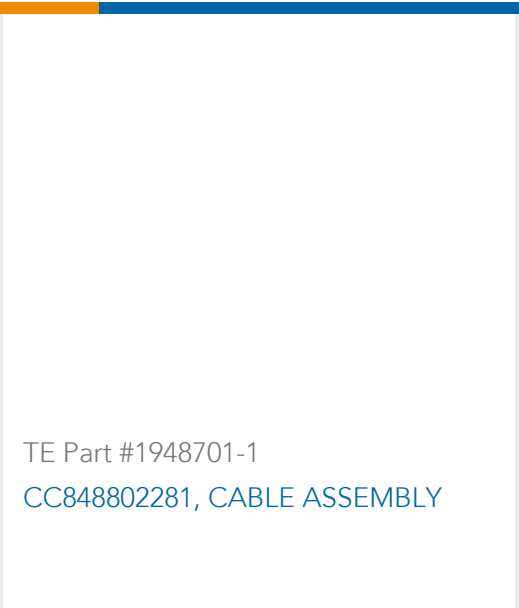
Compatible Parts

TE Part # 6450830-1

MBXL R/A HDR 2LP + 8S + 2LP

Customers Also Bought

<div></div> <div><p>TE Part #1-1600961-7</p><p>CONT 12-16 AWG PWR, MFBL PLATE</p></div>	<div></div> <div><p>TE Part #1-1600961-8</p><p>CONT 12-16 AWG PWR, STD PLATE</p></div>	<div></div> <div><p>TE Part #1600903-1</p><p>2NDARY RCPT PWR VERT BLKHED MT</p></div>	<div></div> <div><p>TE Part #1600914-5</p><p>HARDWARE KIT PANEL MT MULTIBEA</p></div>
<div></div> <div><p>TE Part #7-5530843-5</p><p>CONN SEC II 6 POS 100C/L</p></div>	<div></div> <div><p>TE Part #1888132-1</p><p>MBXL R/A RCPT 3ACP+9P+16S</p></div>	<div></div> <div><p>TE Part #1888132-4</p><p>MBXL R/A RCPT 2ACP+10P+16S</p></div>	<div></div> <div><p>TE Part #3-6450832-6</p><p>MBXLE R/A HEADER 15P+28S</p></div>



Documents

Product Drawings

MBXLE R/A HEADER 3ACP + 4P + 24S

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-6450832-8_H1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-6450832-8_H1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-6450832-8_H1.3d_stp.zip

English

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Product Specifications

Application Specification

English