

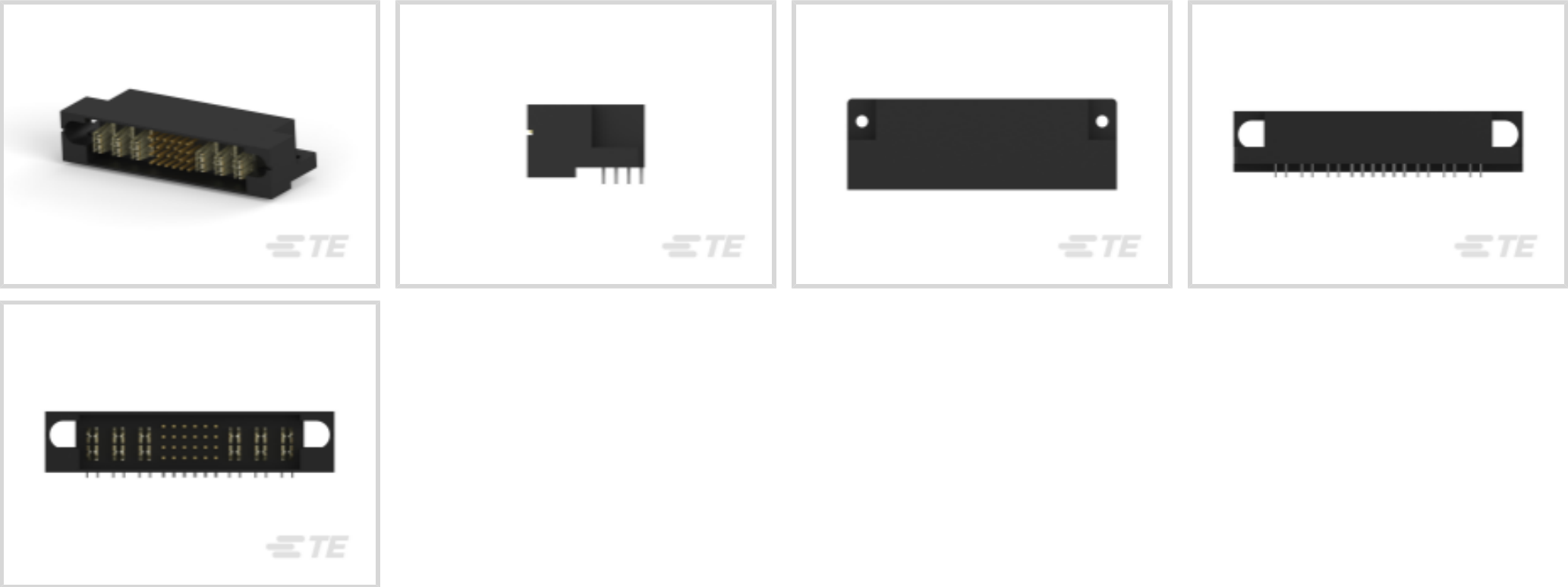
MULTI-BEAM

TE Internal #: 1-6450230-1
PCB Mount Header, Right Angle, Board-to-Board, 30 Position, 2.54 mm / 7.62 mm [.1 in / .3 in] Centerline, Fully Shrouded, Gold (Au)

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
PCB Mount Orientation: **Right Angle**
Connector System: **Board-to-Board**
Number of Positions: **30**
Number of Rows: **4**

Features

Product Type Features

Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
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	12
Number of Loaded Positions	30
Mating & Unmating Configuration	Sequencing
Number of Signal Positions	24
Number of Power Positions	6
PCB Mount Orientation	Right Angle



Number of Positions	30
Number of Rows	4

Electrical Characteristics

Operating Voltage	60 VDC, 300 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 µm[50 µin]
Contact Size	.64mm
Contact Mating Area Plating Material Thickness	.076 µm[3 µin]
Mating Square Post Dimension	.64 mm[.025 in]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 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 (Au)
Contact Type	Blade, Tab
Contact Current Rating (Max)	42 A

Termination Features

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

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

Housing Features

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Housing Material	High Temperature Thermoplastic Glass-Filled
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Centerline (Pitch)	2.54 mm, 7.62 mm [.1 in][.3 in]
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Dimensions

Row-to-Row Spacing	2.54 mm [.1 in]
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Connector Width	23.62 mm [.93 in]
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PCB Thickness (Recommended)	2.11 – 2.62 mm [.083 – .103 in]
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Connector Height	14.58 mm [.574 in]
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Connector Length	69.85 mm [2.75 in]
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Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
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Operating Temperature Range	-55 – 105 °C [-67 – 221 °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	132
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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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 6450570-2
MBXL R/A RCPT 3P+24S+3P



TE Part # 2-6450540-0
MBXL VERT RCPT 3P+24S+3P



TE Part # 1-6450140-0
MBXL VERT RCPT 3P+24S+3P

Customers Also Bought



TE Part #350825-1
03P UMNL HDR ASSY PC 94VO



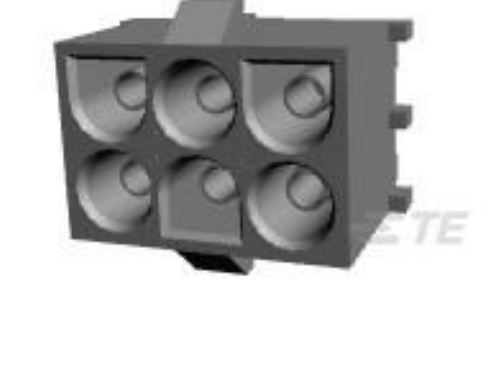
TE Part #6339169-3
ASSY,SHLD,1X8,MJ,WAVE PNL



TE Part #6-1393644-6
V42254B1200B640=PC612 MESSERLE



TE Part #350761-4
04P UMNL HDR ASSY PC



TE Part #350827-1
06P UMNL HDR ASSY PC 94VO



TE Part #926898-1
UNIV.M-N-L.PIN



TE Part #350766-4
03P UMNL PLUG HSG UL94V0



TE Part #2-6450540-0
MBXL VERT RCPT 3P+24S+3P



Documents

Product Drawings

MBXL R/A HDR 3P+24S+3P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-6450230-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-6450230-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-6450230-1_B.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