



TE Internal #: 1-6450849-6

PCB Mount Header, Right Angle, Board-to-Board, 40 Position, 2.54 mm / 5.08 mm / 7.62 mm [.1 in / .2 in / .3 in] Centerline, Fully Shrouded, Gold (Au)

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

Connector System: **Board-to-Board**

Number of Positions: **40**

Number of Rows: **4**

Centerline (Pitch): **2.54 mm, 5.08 mm, 7.62 mm [.1 in, .2 in, .3 in]**

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	16
Number of Loaded Positions	40
Number of Positions	40
Number of Rows	4
PCB Mount Orientation	Right Angle
Number of Power Positions	8



Number of Signal Positions	32
Electrical Characteristics	
Operating Voltage	60 VDC, 300 VDC
Body Features	
Primary Product Color	Black
Contact Features	
Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
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 Shape & Form	Square
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Blade, Tab
Contact Current Rating (Max)	50 A
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Termination Features	
Termination Post & Tail Length	3.05 mm[.12 in]
Termination Method to PCB	Through Hole - Press-Fit
Mechanical Attachment	
Mating Retention	Without
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without
Housing Features	
Centerline (Pitch)	2.54 mm, 5.08 mm, 7.62 mm[.1 in][.2 in][.3 in]
Housing Material	High Temperature Thermoplastic Glass-



Filled

Dimensions

Connector Width	23.62 mm[.93 in]
Connector Height	14.58 mm[.574 in]
Connector Length	71.63 mm[2.82 in]
Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.35 mm[.053 in]

Usage Conditions

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

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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability

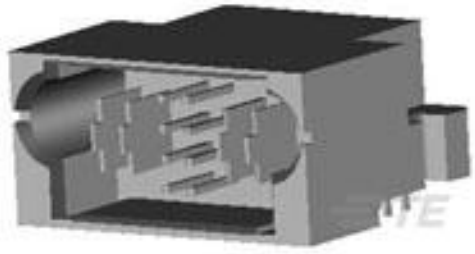
Product Compliance Disclaimer

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 #EC9833-000
ZHD-SCE-3.2-50-S1-4

TE Part #ASA158F12390235000
623 PLUGTE Part #55992-1
TERMINAL,AMPOWER R 2/0 5/16TE Part #1-1415543-5
RTE44110TE Part #1614770-4
BDS 2 A 250 10R 10%TE Part #ZPF000000000205373
PLUG MALE ANG.90 CAL.20 - FXPTE Part #ZPF000000000136485
RECEPTACLE MALE FOR 12 PINS, CAL1,6TE Part #ZPF000000000205388
CONTACT FEMALE CAL.20, M12 - FXPTE Part #ZPF000000000205378
CONTACT MALE ANG.90, CAL20, 120MM2 - FXPTE Part #YZ-KC-212751A-PY00
TOOL DISMOUNTING - FXP2

Documents

Product Drawings



MBXLE R/A HDR 2ACP+1LP+32S+3HDP+1LP+1HDP

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-6450849-6_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-6450849-6_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-6450849-6_1.3d_stp.zip

English

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Product Specifications

Application Specification

English