

MULTI-BEAM

TE Internal #: 6450820-3 PCB Mount Header, Vertical, Board-to-Board, 38 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold (Au) View on TE.com >



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: PCB Mount Header

Connector System: Board-to-Board

Number of Positions: 38

Number of Rows: 4

Centerline (Pitch): 2.54 mm, 6.35 mm [.1 in, .25 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	
Connector & Contact Terminates To	Printed Circuit Board	
Connector Product Type	Connector Assembly	
Configuration Features		
Number of Columns	14	
Number of Loaded Positions	38	
Mating & Unmating Configuration	Normal	
Number of Positions	38	
Number of Rows	4	
PCB Mount Orientation	Vertical	
Number of Power Positions	6	
Number of Signal Positions	32	
Electrical Characteristics		
Operating Voltage	60 VDC, 200 VDC	
Body Features		

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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]	
ermination Features		
Termination Post & Tail Length	4.19 mm[.165 in]	

Through Hole - Press-Fit

Mechanical Attachment

PCB Mount Retention Type	Hold-Down	
PCB Mount Alignment Type	Hold-Down	
Mating Alignment Type	Polarization	
Connector Mounting Type	Board Mount	
Mating Alignment	With	
PCB Mount Alignment	With	
PCB Mount Retention	With	
Housing Features		
Centerline (Pitch)	2.54 mm, 6.35 mm[.1 in][.25 in]	
Housing Material	High Temperature Thermoplastic Glass- Filled	
Dimensions		
Connector Width	14.58 mm[.574 in]	

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Connector Height	12.7 mm[.5 in]	
Connector Length	70.86 mm[2.79 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	
Industry Standards		
Glow Wire Rating	High Temperature Part - Not Glow Wire	
UL Flammability Rating	UL 94V-0	
Packaging Features		
Packaging Quantity	24	
Packaging Method	Tray	

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not applicable 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

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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



	E TE		
TE Part #2-2170705-8 CAGE ASSY, QSFP28 1X1, SPRING, HS, LP	TE Part #4-2170747-2 CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP	TE Part #8-2176459-5 SMW 7W 330R 5% Taped	TE Part #6367580-4 ASSY Z-DOK+4 HOST BOARD 32PR



Documents

Product Drawings MBXL VERT HDR 3P+32S+3P

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English **CAD** Files 3D PDF 3D **Customer View Model** ENG_CVM_CVM_6450820-3_D2.2d_dxf.zip English **Customer View Model** ENG_CVM_CVM_6450820-3_D2.3d_igs.zip English **Customer View Model** ENG_CVM_CVM_6450820-3_D2.3d_stp.zip English By downloading the CAD file I accept and agree to the Terms and Conditions of use Datasheets & Catalog Pages POWER_CONNECTORS_CATALOG_SEC01_BOARD_TO_BOARD English MULTI-BEAM XLE Connectors Quick Reference Guide English

Product Specifications Application Specification

English