5-6450120-9 ✔ ACTIVE

MULTI-BEAM

TE Internal #: 5-6450120-9

PCB Mount Header, Right Angle, Board-to-Board, 13 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 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: **13**

Number of Rows: **4**

Centerline (Pitch): **2.54 mm, 6.35 mm, 7.62 mm [.1 in, .25 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	7
Number of Loaded Positions	13
Mating & Unmating Configuration	Sequencing
Number of Positions	13
Number of Rows	4

PCB Mount Orientation	Right Angle
Board-to-Board Configuration	Co-Planar
Number of Power Positions	5
Number of Signal Positions	8

Electrical Characteristics

Operating Voltage	60 VDC, 200 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)	42 A
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.076 µm[3 µin]

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
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, 7.62 mm[.1 in][.25 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	57.15 mm[2.25 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

Industry Standards

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

Packaging Features

Packaging Quantity	44
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: 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 # 3-6450170-9
MBXL R/A RCPT 3ACP+8S+2P

Customers Also Bought



TE Part #66259-2
MALE CONTACT ASSY. (L.P.)



TE Part #66741-9
TYPE XII FEMALE CONT (STRIP)



TE Part #206136-1
CPC PLUG ASSEMBLY SIZE 23-7



TE Part #CAT-M5833-M2934A
Male-on-Wire Connector, Micro-MaTch



TE Part #CAT-M5833-F3492A
Female-on-Board Connector, Top Entry



TE Part #5745394-2
HD-20 RCPT 9P RA 318 THD INS



TE Part #3-6450170-9
MBXL R/A RCPT 3ACP+8S+2P

Documents

Product Drawings

MBXL R/A HDR 3ACP+8S+2P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5-6450120-9_K6.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5-6450120-9_K6.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5-6450120-9_K6.3d_stp.zip

English

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Product Specifications

Application Specification

English