6450523-2 ✔ ACTIVE

MULTI-BEAM

TE Internal #: 6450523-2

PCB Mount Header, Right Angle, Board-to-Board, 6 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold (Au), Through Hole - Press-Fit, Power

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Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **6**

Number of Rows: **1**

Centerline (Pitch): **2.54 mm [.1 in]**

Features

Product Type Features

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	6
Number of Loaded Positions	6
Number of Positions	6
Number of Rows	1
PCB Mount Orientation	Right Angle
Number of Power Positions	6

Electrical Characteristics

Operating Voltage	60 VDC

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Layout	Inline
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Blade
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	3.05 mm[.12 in]
Termination Method to PCB	Through Hole - Press-Fit

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[.1 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	52.07 mm[2.05 in]
PCB Thickness (Recommended)	1.35 mm[.053 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]

Operation/Application

Circuit Application	Power

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	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 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 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 # 6450553-2
MBXL VERT RCPT 6P

Customers Also Bought



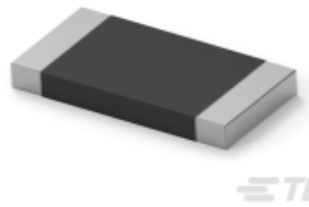
TE Part #1410946-1
MULTI-GIG SOC. CAP SCREW, CUSTOMIZED HDW



TE Part #1-1469492-1
MULTIGIG RT 9MM GUIDE/ESD 0 DEG



TE Part #2102352-2
CeeLok FAS-T, Receptacle Kit, ZnNi



TE Part #3-2176422-5
TLRP 2512 3.0W R068 1% 25PPM 4K RL



TE Part #1-2199230-5
M.2 0.5PITCH 4.2H KEY M 15U'' AU



TE Part #5747193-2
50 RCPT RA/MS STD (SL)



TE Part #L9000366-01
Antenna Wifi6/6E IP67 Blade SMA

Documents

Product Drawings

MBXL R/A HDR 6P

English

CAD Files

Customer View Model

ENG_CVM_CVM_6450523-2_D2.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6450523-2_D2.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6450523-2_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

Product Specifications

Application Specification

English