

6-6450830-1 ✓ ACTIVE

MULTI-BEAM

TE Internal #: 6-6450830-1

PCB Mount Header, Right Angle, Board-to-Board, 32 Position, 2.54 mm / 5.08 mm [.1 in / .2 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: **32**

Number of Rows: **4**

Centerline (Pitch): **2.54 mm, 5.08 mm [.1 in, .2 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 | 14 |
| Number of Loaded Positions | 32 |
| Mating & Unmating Configuration | Normal |
| Number of Positions | 32 |
| Number of Rows | 4 |
| PCB Mount Orientation | Right Angle |
| Number of Power Positions | 8 |
| Number of Signal Positions | 24 |

Electrical Characteristics

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|-------------------|--------|
| Operating Voltage | 60 VDC |
|-------------------|--------|

Body Features



| | |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

| | |
|---|----------------------------|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | 1.27 μ m[50 μ in] |
| Contact Size | .64mm |
| Mating Square Post Dimension | .64 mm[.025 in] |
| PCB Contact Termination Area Plating Material Thickness | 2.54 μ m[100 μ in] |
| 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 μ m[30 μ in] |

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, 5.08 mm[.1 in][.2 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 | 66.55 mm[2.62 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) | 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 | 33 |
| 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 | Wave solder capable to 265°C |

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

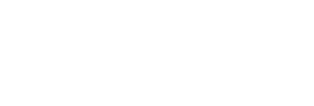


limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration 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 # 5-6450860-0
MBXLE VERT RCPT
3HDP+1LP+24S+1LP+3HDP



TE Part # 3-6450880-4
MBXL R/A RCPT
3HDP+1LP+24S+1LP+3HDP

Customers Also Bought



TE Part #1643903-3
Crown Clip Senior II, Ag Plating



TE Part #5-1761613-5
STEP-Z RCPT 05MM 104P LF ST



TE Part #2132739-1
IMP100S,R,RA4P6C,UG,39



TE Part #2204929-3
MATING BLADE, CROWN CLIP SOCKET



TE Part #2324193-8
CAGE ASSY, QSFP-DD 1X1, CUST HS



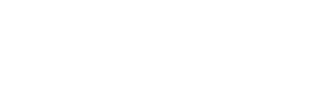
TE Part #2-6450834-7
MBXLE R/A HDR 8P+20S



TE Part #3-1437837-1
WIRING RETAINER, EOVB13A506CA



TE Part #2041376-5
RJ45 W LED G/Y 2X2,30u",DIP,H=25.4mm



TE Part #2321493-4
BUS BAR ASSEMBLY, CROWN CLIP SOCKET



TE Part #7-6450831-3
MBXL R/A HDR12S+2P+12LP

Documents



CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_6-6450830-1_L8.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6-6450830-1_L8.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6-6450830-1_L8.3d_stp.zip](#)

English

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Product Specifications

Application Specification

English

Application Specification

English

Agency Approvals

UL Report

English