

MULTI-BEAM | MULTI-BEAM XLE

TE Internal #: 6450861-8

PCB Mount Receptacle, Vertical, Board-to-Board, 18 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold (Au),

MULTI-BEAM XLE

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: PCB Mount Receptacle

PCB Mount Orientation: Vertical
Connector System: Board-to-Board

Number of Positions: 18

Number of Rows: 4

Features

Product Type Features

| Mixed & Hybrid Header | Yes |
|---|-------------------------|
| Connector Shape | Rectangular |
| PCB Connector Type | PCB Mount Receptacle |
| 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 |
| Training of Colaining | O |
| Number of Loaded Positions | 18 |
| | |
| Number of Loaded Positions | 18 |
| Number of Loaded Positions Mating & Unmating Configuration | 18 Normal |
| Number of Loaded Positions Mating & Unmating Configuration Number of Signal Positions | 18 Normal 16 |
| Number of Loaded Positions Mating & Unmating Configuration Number of Signal Positions Number of Power Positions | 18 Normal 16 2 |
| Number of Loaded Positions Mating & Unmating Configuration Number of Signal Positions Number of Power Positions PCB Mount Orientation | 18 Normal 16 2 Vertical |



| Operating Voltage | 60 VDC, 200 VDC |
|---|---|
| Body Features | |
| Primary Product Color | Black |
| Contact Features | |
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | 1.27 – 2.54 μm[50 – 100 μin] |
| Contact Mating Area Plating Material Thickness | .076 μm[3 μin] |
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 μm[100 – 200 μin] |
| Contact Layout | Matrix |
| Contact Base Material | Copper Alloy |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Type | Receptacle |
| Contact Current Rating (Max) | 42 A |
| Termination Features | |
| Termination Post & Tail Length | 3.43 mm[.135 in] |
| Termination Method to PCB | Through Hole - Press-Fit |
| Mechanical Attachment | |
| Mating Retention | Without |
| Mating Alignment Type | Polarization |
| PCB Mount Retention Type | Hold-Down |
| PCB Mount Alignment Type | Hold-Down |
| PCB Mount Retention | With |
| PCB Mount Alignment | With |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |
| Housing Features | |
| Housing Material | High Temperature Thermoplastic Glass- Filled |
| Centerline (Pitch) | 2.54 mm, 6.35 mm[.1 in][.25 in] |
| Dimensions | |
| Row-to-Row Spacing | 2.54 mm[.1 in] |
| | |



| Connector Width | 11.94 mm[.47 in] |
|-----------------------------|---------------------------------------|
| PCB Thickness (Recommended) | 1.35 mm[.053 in] |
| Connector Height | 12.7 mm[.5 in] |
| Connector Length | 36.58 mm[1.44 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 | 66 |

Product Compliance

Packaging Method

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 |

Tray

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

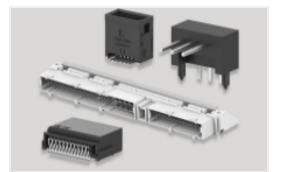
Compatible Parts



Also in the Series | MULTI-BEAM XLE



Board-to-Board Headers & Receptacles(97)



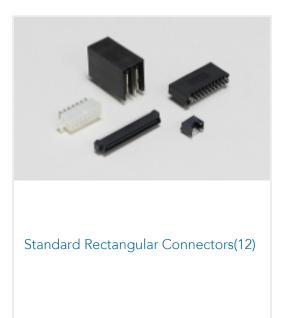
PCB Headers & Receptacles(97)



Rectangular Connector Housings(12)



Rectangular Power Connectors(106)



Customers Also Bought







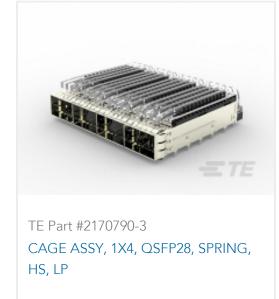












Documents

Product Drawings

MBXLE VERT RCPT 16S + 2P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6450861-8_E.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6450861-8_E.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6450861-8_E.3d_stp.zip

English

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Product Specifications

Application Specification

English