

MULTI-BEAM

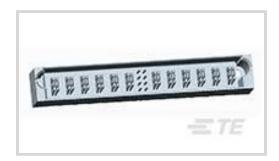
TE Internal #: 6450820-3

Rectangular Power Connectors, Connector Assembly, Plug, Board-to-Board, 38 Position, 6.35 mm / 2.54 mm [.25 in / .1 in] Centerline

View on TE.com >



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: Connector Assembly

Connector & Housing Type: Plug
Connector System: Board-to-Board

Number of Positions: 38

Centerline (Pitch): 2.54 mm, 6.35 mm [.1 in, .25 in]

Features

Product Type Features

Assembly Requirement	Factory Assembled
Rectangular Power Connector Type	Connector Assembly
Connector & Housing Type	Plug
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Mating & Unmating Configuration	Normal
Number of Positions	38
PCB Mount Orientation	Vertical
Number of Power Positions	6
Number of Signal Positions	32
Number of Rows	4

Electrical Characteristics

Operating Voltage	60 VDC, 200 VDC

Body Features

Wire Color (Base)	Black	

Contact Features

Power Contact Base Material	Tin	
-----------------------------	-----	--



Contact Underplating Material Thickness	4.19 μm
Contact Mating Area Plating Material	Gold
Contact Underplating Material	Nickel
Contact Current Rating (Max)	50 A
Contact Retention Within Housing	Without
Contact Type	Blade, Pin
PCB Contact Termination Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.076 μm[3 μin]
Termination Features	
Termination Post & Tail Length	4.19 mm[.165 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit
Mechanical Attachment	
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention Type	Boardlock
Connector Mounting Type	Board Mount
Housing Features	
Centerline (Pitch)	2.54 mm, 6.35 mm[.1 in][.25 in]
Housing Color	Black
Housing Material	High Temperature Thermoplastic
Dimensions	
Row-to-Row Spacing	2.54 mm[.1 in]
Usage Conditions	
Operating Temperature Range	-40 - 125 °C[-40 - 257 °F]
Operation/Application	
Circuit Application	Power & Signal
Industry Standards	
UL Flammability Rating	UL 94V-0
Glow Wire Rating	High Temperature Part - Not Glow Wire
Packaging Features	
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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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



Customers Also Bought







TE Part #6-1761612-5 STEP-Z PLUG 15MM 104P LF ST



TE Part #1775133-2 MOD JACK, RJ45, MULTIPLE, 1X4, 15u" Au





TE Part #4-2170747-2 CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP



TE Part #5767178-2 MICTOR .355 RECEPTACLE, 76 POS T&R PACKA



TE Part #6367580-4
ASSY Z-DOK+4 HOST BOARD 32PR



TE Part #6450870-8 MBXLE R/A RCPT 3P+32S+3P



Documents

Product Drawings

MBXL VERT HDR 3P+32S+3P

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

2_PIECE_POWER_CONNECTORS_qrg_4-1773458-1

English

Product Specifications

Application Specification

English

Product Environmental Compliance

MD_6450820-3_03192018238_dmtec

English

MD_6450820-3_03192018238_dmtec

English