

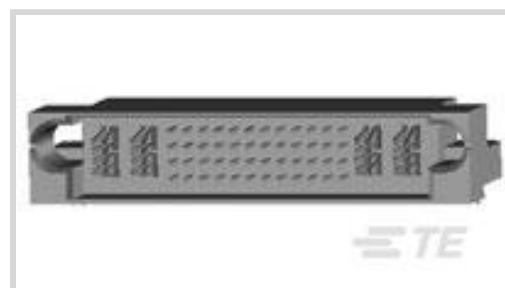
**MULTI-BEAM**

TE Internal #: 2-6450120-3

Rectangular Power Connectors, Header, Plug, Board-to-Board, 52 Position, 2.54mm / 6.35mm [.25in / .1in] Centerline, Printed Circuit Board, UL 94V-0

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors

Rectangular Power Connector Type: **Header**Connector & Housing Type: **Plug**Connector System: **Board-to-Board**Number of Positions: **52**Centerline (Pitch): **2.54 mm, 6.35 mm [ .1 in, .25 in ]****Features****Product Type Features**

Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

**Configuration Features**

Number of Positions	52
PCB Mount Orientation	Right Angle
Number of Power Positions	4
Number of Signal Positions	48
Number of Rows	4

**Electrical Characteristics**

Operating Voltage	60 VDC, 200 VDC
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**Contact Features**

Power Contact Base Material	Tin
Contact Current Rating (Max)	42 A
Contact Retention Within Housing	Without
Contact Type	Pin



PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Noble Metal
Contact Mating Area Plating Material Thickness	.076 $\mu\text{m}$ [3 $\mu\text{in}$ ]
Underplate Material Thickness	1.53 $\mu\text{m}$ [50 $\mu\text{in}$ ]

### Termination Features

Termination Post & Tail Length	1.53 mm[.06 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Connector Mounting Type	Board Mount
Mating Retention Type	Boardlock

### 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]
Accepts Wire Insulation Diameter Range	2.92 mm
PCB Thickness (Recommended)	1.57 mm[.062 in]

### Usage Conditions

Operating Temperature Range	-20 – 105 °C[-4 – 221 °F]
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### Operation/Application

Circuit Application	Power & Signal
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### Industry Standards

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

### Packaging Features

Packaging Method	Tray
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### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2021 (211) Candidate List Declared Against: JAN 2021 (211) 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>

## Customers Also Bought



TE Part #8-35107-2  
PIDG RING TONGUE TERMINALS



TE Part #2-2176306-0  
RP 1E 0.1W 1K82 0.1% 25PPM 5K RL



TE Part #5-2176306-1  
RP 1E 0.1W 3K83 0.1% 25PPM 5K RL



TE Part #2007182-1  
SFP accessories



TE Part #1546011-2  
3PCV-04-008=3PCV-ASSY



TE Part #3-641214-7  
Polyester Right Angle PCB Header:  
2.54mm, Wire-to-Board, MTA 100



TE Part #1-6609107-2  
CORCOM P SERIES MULTI-FUNCTION INLET FIL



TE Part #104891-6  
60 50/50 GRID CABLE RCPT COVER



## Documents

### Product Drawings

[MBXL R/A HDR 2P+48S+2P](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450120-3\\_E3.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450120-3\\_E3.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-6450120-3\\_E3.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[2\\_PIECE\\_POWER\\_CONNECTORS\\_qrg\\_4-1773458-1](#)

English

### Product Specifications

[Application Specification](#)

English

### Product Environmental Compliance

[TE Material Declaration](#)

English