



MULTI-BEAM

TE Internal #: 1-6450550-5

Rectangular Power Connectors, Header, Receptacle, Board-to-Board, 28 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Printed Circuit Board

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **28**

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

Features

Product Type Features

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

Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Positions        | 28       |
| PCB Mount Orientation      | Vertical |
| Number of Power Positions  | 4        |
| Number of Signal Positions | 24       |
| Number of Rows             | 4        |

Electrical Characteristics

|                   |                 |
|-------------------|-----------------|
| Operating Voltage | 60 VDC, 200 VDC |
|-------------------|-----------------|

Contact Features



|                                                |                |
|------------------------------------------------|----------------|
| Contact Mating Area Plating Material           | Gold           |
| Contact Underplating Material                  | Nickel         |
| Contact Current Rating (Max)                   | 42 A           |
| Contact Retention Within Housing               | Without        |
| Contact Type                                   | Receptacle     |
| PCB Contact Termination Area Plating Material  | Tin            |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

Termination Features

|                                             |                          |
|---------------------------------------------|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---------------------------------------------|--------------------------|

Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| 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 | -20 – 105 °C[-4 – 221 °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 | Package |
|------------------|---------|

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)<br>Candidate List Declared Against: JAN 2023 (233)<br>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 # 1-6450530-1  
MBXL R/A HDR 2P+24S+2P

Customers Also Bought

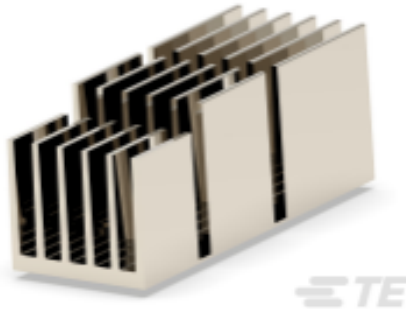
TE Part #5-533289-5  
BOX II 2 ROW RECP ASSY 60 POS

TE Part #2101423-1  
A600R,Sz3,Q11/Q11/blnk/Q11/Q11/85

TE Part #5535056-5  
ASSY,RECPT,EUROCARD,TYPE C,L-FREE,96,.19

TE Part #1-2327362-4  
CAGE ASSY, QSFP-DD 1X1, STANDARD



|                                                                                                                                                       |                                                    |                                                                            |                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
|  <p>TE Part #2306345-2<br/>HEAT SINK, QSFP28 1X1,<br/>CUSTOMIZED</p> | <p>TE Part #6450571-2<br/>MBXL R/A RCPT 24S+8P</p> | <p>TE Part #1-2170806-0<br/>CAGE ASSEMBLY, 1X2, QSFP28,<br/>SPRING, HS</p> | <p>TE Part #2343566-1<br/>CAGE ASSY, 1X4, QSFP28, SPRING,<br/>HS</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|

Documents

Product Drawings

MBXL VERT RCPT 2P+24S+2P

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-6450550-5\_T.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-6450550-5\_T.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-6450550-5\_T.3d\_stp.zip

English

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Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English