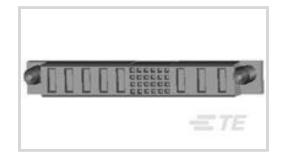


#### MULTI-BEAM

TE Internal #: 6450550-1 PCB Mount Receptacle, Vertical, Board-to-Board, 32 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 in] Centerline, Fully Shrouded

#### View on TE.com >





#### PCB Connector Type: PCB Mount Receptacle

PCB Mount Orientation: Vertical

Connector System: Board-to-Board

Number of Positions: **32** 

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	14	
Number of Loaded Positions	32	
Number of Signal Positions	24	
Number of Power Positions	8	
PCB Mount Orientation	Vertical	
Number of Positions	32	
Number of Rows	4	
Electrical Characteristics		
Operating Voltage	60 VDC, 200 VDC, 300 VDC	

PCB Mount Receptacle, Vertical, Board-to-Board, 32 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 in] Centerline, Fully Shrouded



## **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	Guide Post
PCB Mount Retention	Without
PCB Mount Alignment	Without
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, 7.62 mm[.1 in][.25 in][.3 in]
Dimensions	
Row-to-Row Spacing	2.54 mm[.1 in]
Connector Width	11.94 mm[.47 in]
PCB Thickness (Recommended)	2.11 – 2.62 mm[.083 – .103 in]
Connector Height	12.7 mm[.5 in]

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PCB Mount Receptacle, Vertical, Board-to-Board, 32 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 in] Centerline, Fully Shrouded



Connector Length	86.36 mm[3.4 in]
Usage Conditions	
Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-55 – 105 °C[-67 – 221 °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	22
Packaging Method	Box
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

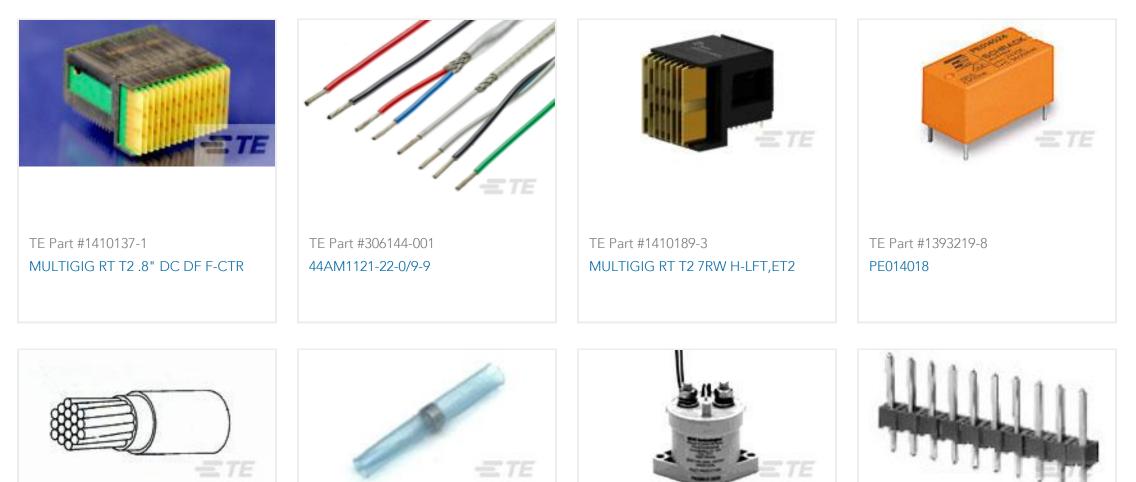
PCB Mount Receptacle, Vertical, Board-to-Board, 32 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 in] Centerline, Fully Shrouded



# **Compatible Parts**



# Customers Also Bought



TE Part #2820223021	TE Part #992899-000	TE Part #	1-1618002-8	TE Part #9-146278-0
44A0111-20-2	D-110-0181	EV200HA	ANA=RELAY, SPST-NO WITH	40 MODII HDR SRST B/A .100CL



## Documents

Product Drawings MBXL VERT RCPT 3ACP+24S+5P

English

#### **CAD** Files

Customer View Model ENG\_CVM\_CVM\_6450550-1\_T3.2d\_dxf.zip

PCB Mount Receptacle, Vertical, Board-to-Board, 32 Position, 2.54 mm / 6.35 mm / 7.62 mm [.1 in / .25 in / .3 in] Centerline, Fully Shrouded



English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_6450550-1\_T3.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6450550-1\_T3.3d\_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