1-6450541-9 ! PRELIMINARY

MULTI-BEAM

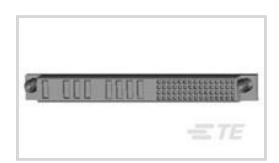
TE Internal #: 1-6450541-9

PCB Mount Receptacle, Vertical, Board-to-Board, 68 Position, 2.54 mm / 5.08 mm [.1 in / .2 in] Centerline, Fully Shrouded, Gold

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: PCB Mount Receptacle

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

Number of Positions: **68**Number of Rows: **4**

Features

Electrical Characteristics

Operating Voltage	60 VDC
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]
Connector Length	111.13 mm[4.375 in]
Other	
Position Locations Omitted	Column 11, 12
Number of Blocked Positions	8
EU ELV Compliance	Compliant
Industry Standards	
Glow Wire Rating	High Temperature Part - Not Glow Wire
UL Flammability Rating	UL 94V-0
Usage Conditions	
Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]



Mating Retention	Without
Mating Alignment Type	Guide Post
PCB Mount Retention	Without
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With
Termination Features	
Termination Post & Tail Length	3.43 mm[.135 in]
Termination Method to PCB	Through Hole - Press-Fit
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
Contact Type	Receptacle
Contact Current Rating (Max)	42 A
Housing Features	
Housing Material	High Temperature Thermoplastic Glass- Filled
Centerline (Pitch)	5.08 mm, 2.54 mm[.1 in][.2 in]
Configuration Features	
Number of Columns	23
Number of Loaded Positions	60
Number of Signal Positions	60
Number of Power Positions	8
PCB Mount Orientation	Vertical
Number of Positions	68
Number of Rows	4

Product Type Features



Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Receptacle
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Body Features	
Primary Product Color	Black
Operation/Application	
Circuit Application	Power & Signal

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Yet Reviewed
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 2024 (241) Candidate List Declared Against: DEC 2012 (138) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.



Compatible Parts



Customers Also Bought





















Documents

Product Drawings
MBXL VERT RCPT 60S+8P

English

CAD Files

Customer View Model



ENG_CVM_CVM_1-6450541-9_1.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-6450541-9_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-6450541-9_1.3d_stp.zip

English

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Product Specifications

Application Specification

English