

MULTI-BEAM

TE Part # 1-6450551-0
TE Internal #: 1-6450551-0
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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Product Type: **Connector Assembly**
Housing Type: **Receptacle**
Connector System: **Board-to-Board**
Number of Positions: **20**
Centerline (Pitch): **2.54 mm, 5.08 mm [.1 in, .2 in]**

Features

Product Type Features

Product Type	Connector Assembly
Housing Type	Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Contact Type	Socket

Configuration Features

Number of Positions	20
PCB Mount Orientation	Vertical
Number of Power Positions	4
Number of Signal Positions	16
Number of Rows	4
Row-to-Row Spacing	2.54 mm[.1 in]
Board-to-Board Configuration	Vertical

Electrical Characteristics

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Operating Voltage	60 VDC
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Contact Features

Contact Current Rating (Max)	42 A
Contact Retention	Without
Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Noble Metal
Contact Mating Area Plating Thickness	.76 µm[30 µin]

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

Connector Mounting Type	Board Mount
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Housing Features

Centerline (Pitch)	2.54 mm, 5.08 mm[.1 in][.2 in]
UL Flammability Rating	UL 94V-0
Housing Color	Black
Housing Material	High Temperature Thermoplastic

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

Glow Wire Rating	High Temperature Part - Not Glow Wire
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Packaging Features

Packaging Method	Tray
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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	Not Yet Reviewed
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 2019 (197)



Candidate List Declared Against: JUN 2018 (191)

Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed 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

TE Part # 1-6450331-1
MBXL R/A HDR 16S+4P

Customers Also Bought

TE Part #939515-000
FLHTC0311-26-1

TE Part #1633840-2
ANVIL

TE Part #1803180-1
ANVIL, COMBINATION

TE Part #1855129-3
HDM w/FA
EMHBPR140TAB140O G

MBXL VERT RCPT 16S+4P

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TE Part #188120-7
FASTON 250 REC 0.5-1.0
MM2 TPPHBZ

TE Part #2266406-2
OC-AT-S-FA-042F070F-
001-0127

TE Part #7-1633860-4
CRIMPER, WIRE F

TE Part #7-87522-2
MOD IV RECP PLTD 30
DPLX LF

TE Part #926298-5
UN-MNL STECK-GEH 4P

Documents

Product Drawings
MBXL VERT RCPT 16S+4P
English

CAD Files
Customer View Model
ENG_CVM_CVM_1-6450551-0_G3_c-1-6450551-0-g3.3d_stp.zip
English
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1-6450551-0_G3_c-1-6450551-0-g3.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_1-6450551-0_G3_c-1-6450551-0-g3.3d_igs.zip
English

Product Specifications
Application Specification
English