



MULTI-BEAM

TE Internal #: 3-6450830-7
PCB Mount Header, Right Angle, Board-to-Board, 14 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Gold (Au), Through Hole - Solder

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
Connector System: **Board-to-Board**
Number of Positions: **14**
Number of Rows: **4**
Centerline (Pitch): **2.54 mm [.1 in]**

Features

Product Type Features

Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
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	8
Number of Loaded Positions	11
Number of Positions	14
Number of Rows	4
PCB Mount Orientation	Right Angle
Number of Power Positions	6
Number of Signal Positions	8

Electrical Characteristics

Operating Voltage	60 VDC
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Body Features

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Primary Product Color	Black
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Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
Contact Size	.64mm
Mating Square Post Dimension	.64 mm[.025 in]
Contact Shape & Form	Square
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Blade, Tab
Contact Current Rating (Max)	50 A
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.076 µm[3 µin]

Termination Features

Termination Post & Tail Length	3.43 mm[.135 in]
Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Mating Retention	Without
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without

Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
Housing Material	High Temperature Thermoplastic Glass-Filled

Dimensions

Connector Width	23.62 mm[.93 in]
Connector Height	14.58 mm[.574 in]



Connector Length	36.32 mm[1.43 in]
Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	2.11 – 2.62 mm[.083 – .103 in]

Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Operation/Application

Circuit Application	Power & Signal
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Industry Standards

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

Other

Position Locations Omitted	P2, P4, P6
Number of Blocked Positions	3

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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: DEC 2012 (138) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
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 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 # 6450830-1
MBXL R/A HDR 2LP + 8S + 2LP

Customers Also Bought

TE Part #EC9833-000
ZHD-SCE-3.2-50-S1-4

TE Part #ASA158F12390235000
623 PLUGTE Part #55992-1
TERMINAL,AMPOWER R 2/0 5/16TE Part #1-1415543-5
RTE44110TE Part #1614770-4
BDS 2 A 250 10R 10%TE Part #YZ-KC-212751A-PY00
TOOL DISMOUNTING - FXP2TE Part #ZPF000000000205373
PLUG MALE ANG.90 CAL.20 - FXPTE Part #ZPF000000000136485
RECEPTACLE MALE FOR 12 PINS, CAL1,6TE Part #ZPF000000000205388
CONTACT FEMALE CAL.20, M12 - FXPTE Part #ZPF000000000205378
CONTACT MALE ANG.90, CAL20, 120MM2 - FXP

Documents

CAD Files



3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-6450830-7_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_3-6450830-7_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_3-6450830-7_1.3d_stp.zip

English

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Product Specifications

Application Specification

English

Agency Approvals

UL Report

English