

5-147384-5 ✓ ACTIVE

AMPMODU | AMPMODU 50/50 Grid

TE Internal #: 5-147384-5

AMPMODU 50/50 Grid, PCB Mount Receptacle, Vertical, Board-to-Board, 50 Position, 1.27mm [.05in] Centerline, Gold, Printed Circuit Board

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Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **50**

Centerline (Pitch): **1.27 mm [.05 in]**

Features

Product Type Features

PCB Connector Assembly Type	PCB Mount Receptacle
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Rows	2
Stackable	No
PCB Mount Orientation	Vertical
Number of Positions	50
Board-to-Board Configuration	Parallel

Electrical Characteristics

Dielectric Withstanding Voltage (Max)	300 VAC
Insulation Resistance	5000 MΩ
Operating Voltage	30 VAC

Body Features



Assembly Process Feature Material	Aluminum
PCB Retention Feature Material	Copper Alloy
PCB Retention Feature Plating Material	Tin over Nickel

Contact Features

	150 μ m
Mating Pin Diameter	.46 mm[.018 in]
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.762 μ m[30 μ m]
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Thickness	.08 mm[.003 in]
Rectangular Termination Post & Tail Width	.36 mm[.014 in]
Termination Method to Printed Circuit Board	Surface Mount

Mechanical Attachment

PCB Mount Retention Type	Hold-Down Post
Mating Alignment	With
Mating Alignment Type	Polarizing Tab
PCB Mount Retention	With
PCB Mount Alignment	Without

Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Color	Black
Housing Material	LCP - GF (Liquid Crystal Polymer)

Dimensions

Connector Height	4.75 mm[.187 in]
Row-to-Row Spacing	1.37 mm[.05 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

Usage Conditions

Operating Temperature Range	-65 – 105 °C[-53.8 – 157 °F]
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Operation/Application

Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal

Industry Standards

Approved Standards	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Reel Diameter	56 mm[2.2 in]
Packaging Quantity	600
Packaging Method	Tape & Reel

Other

Comment	Other sizes are available.
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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: JUN 2020 (209) Candidate List Declared Against: JUL 2019 (201) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Reflow solder capable to 260°C

Product Compliance Disclaimer

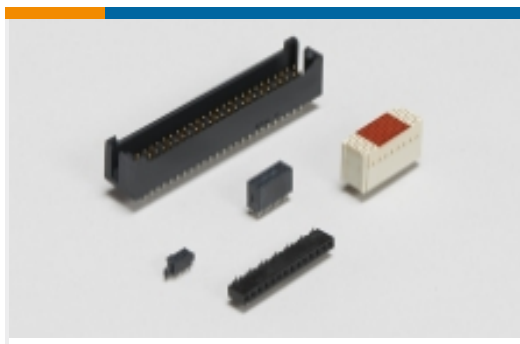
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



Also in the Series | **AMPMODU 50/50 Grid**



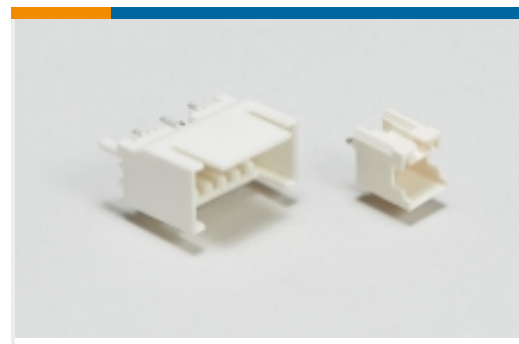
Board-to-Board Headers & Receptacles(283)



PCB Connector Covers(9)



Ribbon Cable Connectors(32)



Wire-to-Board Headers & Receptacles (12)

Customers Also Bought



TE Model / Part #7-2176307-8
RP 1E 0.1W 78K7 0.1% 25PPM 5K RL



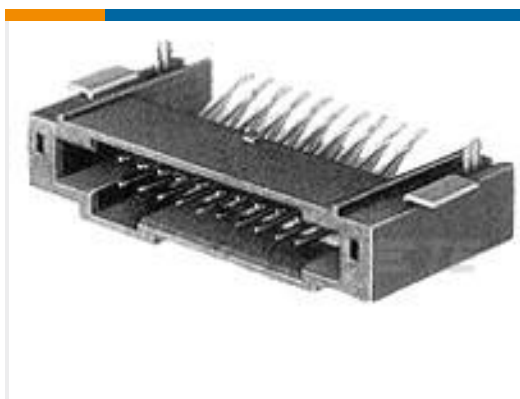
TE Model / Part #4-2176346-0
CRGCQ 1210 3M3 5%



TE Model / Part #6-2176305-0
RP 1E 0.1W 442R 0.1% 25PPM 5K RL



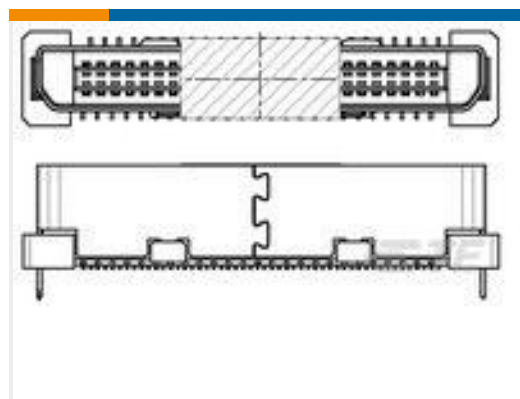
TE Model / Part #5-104319-3
30 MODII HDR DRRR SHRD LF



TE Model / Part #104894-5
50 50/50 GRID RA HDR



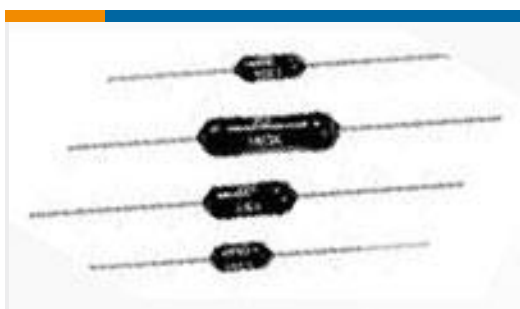
TE Model / Part #2349202-6
SFP56 STACKED 2X1 RECEPTACLE ASSEMBLY



TE Model / Part #2040809-1
1mm WIRE TO BOARD REC ASSY VERTICAL



TE Model / Part #5-104355-5
10 MODII HDR DRRR B/A W/HLDWN LF



TE Model / Part #6-1879674-2
HB 4K99 0.1% 25PPM

Documents

Product Drawings

[50 50/50 GRID SMT RCPT VC LF](#)

English

CAD Files

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG_CVM_CVM_5-147384-5_D.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_5-147384-5_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5-147384-5_D.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[AMPMODU_INTERCONNECTION_SYSTEM_SECTION1AND2](#)

English

[Ribbon Cable Interconnect Solutions](#)

English

[Fine Pitch Stacking Connectors - 1.27mm AMPMODU 50/50 Grid Connectors](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_5-147384-5_09302011544](#)

English

[MD_5-147384-5_09302011544](#)

English

Agency Approvals

[UL Report](#)

English