



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **12**

Number of Rows: **2**

Features

Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Unshrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Right Angle
Number of Positions	12
Number of Rows	2
Board-to-Board Configuration	Perpendicular

Electrical Characteristics

Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	750 Vrms

Body Features

Primary Product Color	Black
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Contact Features

Mating Square Post Dimension	.64 mm[.025 in]
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	15 µin
Contact Shape & Form	Square
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Gold Flash
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.38 µm[15 µin]
Contact Type	Pin
Contact Current Rating (Max)	3 A

Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
Termination Post & Tail Length	2.79 mm[.11 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
Housing Material	Thermoplastic

Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.4 mm[.055 in]

Usage Conditions

Housing Temperature Rating	Standard
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]

Operation/Application

Circuit Application	Signal
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Industry Standards

Compatible With Agency/Standards Products	CSA, UL
Compatible With Approved Standards Products	CSA LR7189, UL E28476



UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	50
Packaging Method	Tray

Product Compliance

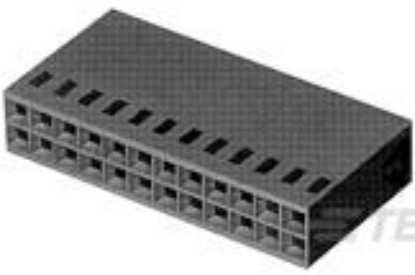
For compliance documentation, visit the product page on TE.com>

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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Wave solder capable to 240°C

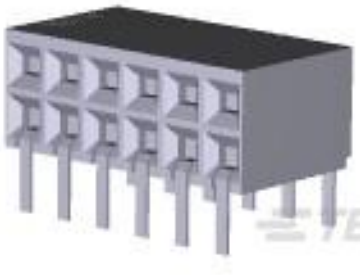
Product Compliance Disclaimer

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>

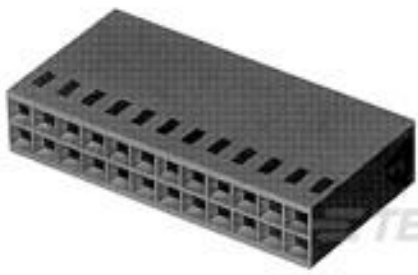
Compatible Parts



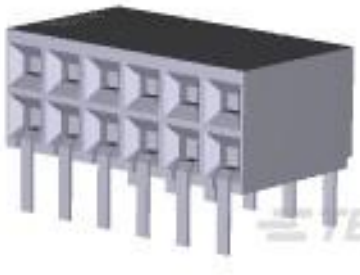
TE Part # 1-86177-3
12 MODIV HSG COMP DR .100CL



TE Part # 5535512-1
12 MODII HORZ DR CE



TE Part # 87456-7
12 MODIV HSG COMP DR .100CL



TE Part # 5146140-5
12 MODII HORZ DR CE 100CL





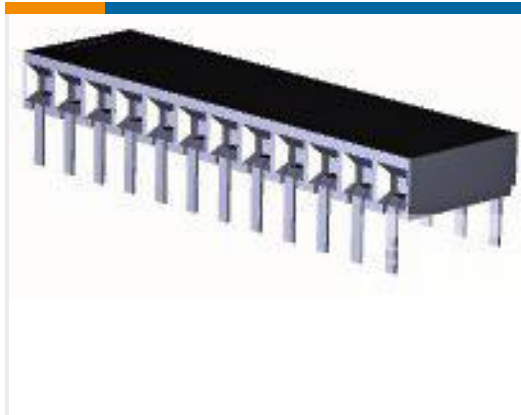
TE Part # 87456-8
12 MODIV HSG DR MRKD .100CL



TE Part # 1-147721-1
12 MODII HORZ SR SFMNT 30AU



TE Part # 1-5147721-1
12 MODII HORZ SR SFMNT 30AU



TE Part # 1-5535676-1
12 MODII HORZ SR CE 100CL



TE Part # 4-5146140-5
92 MODII HORZ DR CE 100CL



TE Part # 5147722-5
12 MODII HORZ DR SFMNT 30AU

Also in the Series | AMPMODU Headers



Connector Caps & Covers(1)



Connector Contacts(64)



Connector Hardware(2)



PCB Headers & Receptacles(3202)



Wire-to-Board Connector Assemblies & Housings(5)

Customers Also Bought



TE Part #5747461-1
HD-20 RCPT 25P RA 590



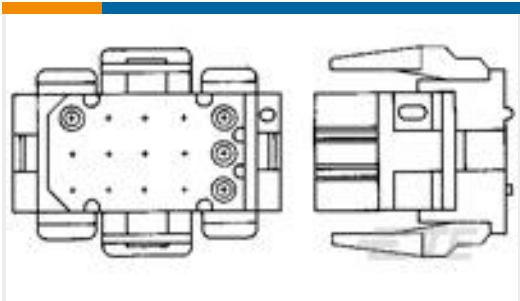
TE Part #5747462-2
HD-20 RCPT 37P RA 590



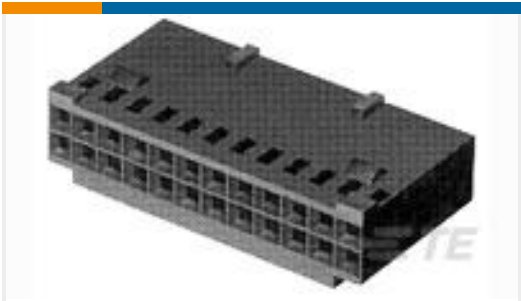
TE Part #640389-6
06P MTA156 HDR ASSY SQ R/A F/L



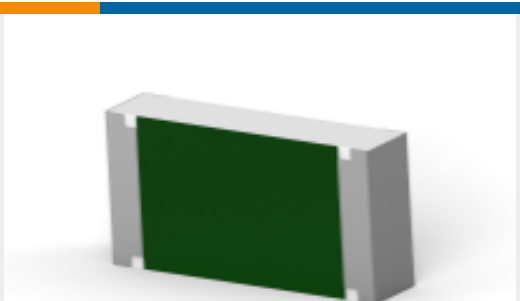
TE Part #4-87456-9
04 MODIV HSG COMP DR .100CL



TE Part #1-640521-0
09P MR II PLUG HSG V0



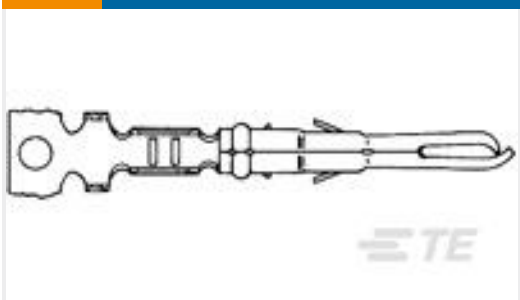
TE Part #87631-2
06 MODIV HSG DR MRKD .100 POL



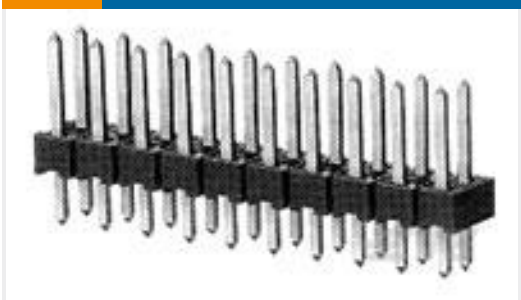
TE Part #8-2176398-3
3502 10R 5%



TE Part #443976-5
AMPLIMITE,ASY,RCPT,POSTD,109,5



TE Part #640545-1
MR SPLIT PIN 26-18 PTPHBRZ LP



TE Part #5-146252-6
12 MODII HDR DRST B/A .100 LF

Documents

CAD Files

Customer View Model

[ENG_CVM_87230-6_K.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_87230-6_K.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_87230-6_K.2d_dxf.zip](#)

English

3D PDF

English

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

Datasheets & Catalog Pages

[AMPMODU_INTERCONNECTION_SYSTEM_SECTION5](#)

English