280509-2 ✔ ACTIVE

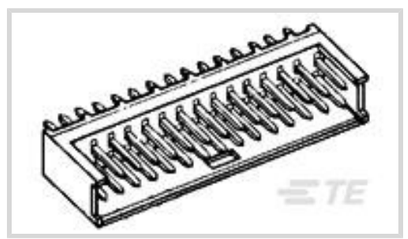
AMPMODU | AMPMODU Headers

TE Internal #: 280509-2

PCB Mount Header, Vertical, Board-to-Board, 18 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, AMPMODU Headers

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **18**

Number of Rows: **2**

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	Partially Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Connector Contact Load Condition	Fully Loaded
Number of Positions	18
Number of Rows	2
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	40 VDC
Dielectric Withstanding Voltage (Max)	750 V

Body Features

Connector Profile	Standard
Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
Mating Square Post Dimension	.63 mm[.025 in]
PCB Contact Termination Area Plating Material Thickness	2.5 µm[98.42 µin]
Contact Shape & Form	Square
Contact Layout	Inline
Contact Mating Area Length	6.6 mm[.259 in]
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Bright
Contact Mating Area Plating Material Thickness	.381 µm[15 µin]
Contact Mating Area Plating Material	Gold Flash over Palladium Nickel
Contact Type	Pin
Contact Current Rating (Max)	3 A

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention	With
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	Flame Retardant Thermoplastic

Dimensions

Connector Width	7 mm[.275 in]
Connector Height	12.6 mm[.496 in]
Connector Length	25.4 mm[1 in]

Row-to-Row Spacing	2.54 mm[.1 in]

Usage Conditions

Housing Temperature Rating	Standard
Operating Temperature Range	-40 – 80 °C[-40 – 176 °F]

Industry Standards

Industry Standard	IEC
Compatible With Approved Standards Products	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	400
Packaging Method	Box

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 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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 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

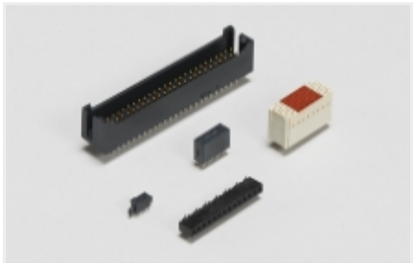


TE Part # 280513
AMPMODU II REC. HSG, DUAL ROW, 18 POS

Also in the Series | AMPMODU Headers



Automotive Signal & Power Headers(3)



Board-to-Board Headers & Receptacles(1147)



Connector Contacts(15)



Connector Hardware(1)



Rectangular Connector Housings(2)



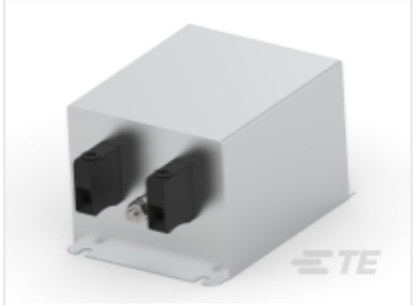
Rectangular Power Connectors(25)



Wire-to-Board Connector Assemblies & Housings(2)

Customers Also Bought

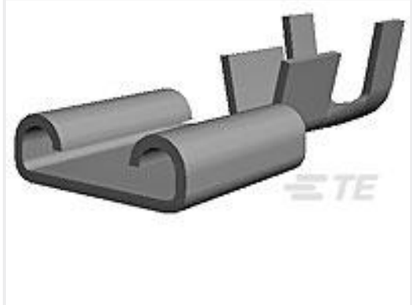
TE Part #284185-E
STVE 160 F ABCDE VVVV 7-00 EEUE 13,0 *



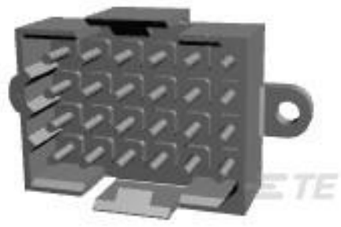
TE Part #802297-SF
FN2412-45-33



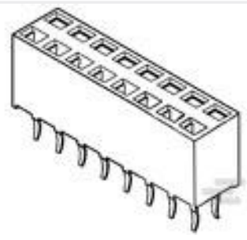
TE Part #284959-E
STVE 160 F ABCDE VVVV 7-00 TL 4,0 * 137



TE Part #180363-2
250 FASTON,REC.,12-10 AWG,TPBR



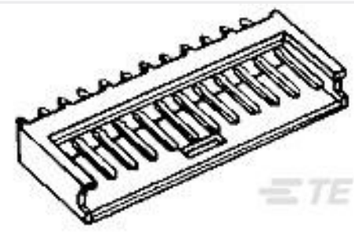
TE Part #1-206763-3
METRIMATE PIN HEADER ASSY,24P



TE Part #1-215307-2
2X12P HV100 REC CON. TE, 7.0MM



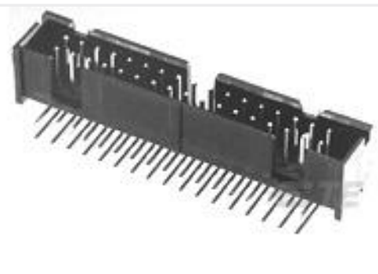
TE Part #8-215464-0
10P.MICRO-MATCH MOB



TE Part #280375-2
15P AMPMODU II SHRD HDR, ST, 0.38 AU



TE Part #1879502-6
CRGH2512 5% 22K 2W



TE Part #1-5103311-0
A/L LOW PRO HDR 50P RA BLACK

Documents

Product Drawings

2X09 POS .100DR MODU-

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_280509-2_S_c-280509-2-s.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_280509-2_S_c-280509-2-s.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_280509-2_S_c-280509-2-s.3d_stp.zip

English

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