1-176975-1 ✔ ACTIVE

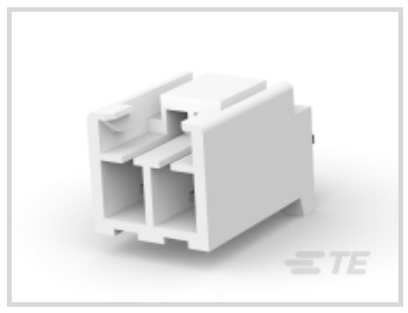
AMP Universal Power

TE Internal #: 1-176975-1

PCB Mount Header, Vertical, Wire-to-Board, 2 Position, 3.96 mm [.155 in] Centerline, Fully Shrouded, Tin (Sn), AMP Universal Power

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **2**

Centerline (Pitch): **3.96 mm [.155 in]**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-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	2
Number of Loaded Positions	2
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	2
Number of Rows	1

Number of Power Positions	2

Electrical Characteristics

Operating Voltage	50 VAC

Body Features

Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	.8 – 1.8 µm[31.49 – 70.86 µin]
PCB Contact Termination Area Plating Material Finish	Bright
Contact Size	1.2mm
Mating Tab Width	1.2 mm[.047 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
Contact Shape & Form	Rectangular
Contact Layout	Inline
Contact Base Material	Brass
Mating Tab Thickness	.64 mm[.025 in]
Contact Mating Area Plating Material	Tin (Sn)
Contact Mating Area Plating Material Finish	Bright
Contact Mating Area Plating Material Thickness	1 µm[39.37 µin]
Contact Type	Tab
Contact Current Rating (Max)	12 A
PCB Contact Termination Area Plating Material	Tin

Termination Features

Rectangular Termination Post & Tail Width	1.1 mm[.043 in]
Rectangular Termination Post & Tail Thickness	.64 mm[.025 in]
Termination Post & Tail Length	3.8 mm[.15 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Latch
PCB Mount Retention Type	Kinked
PCB Mount Alignment	Without

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

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	3.96 mm[.155 in]
Housing Material	Nylon 6/6 GF

Dimensions

Connector Width	9.9 mm[.39 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	14 mm[.551 in]
Connector Length	9.06 mm[.357 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Power

Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	400
Packaging Method	Bag

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	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: 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

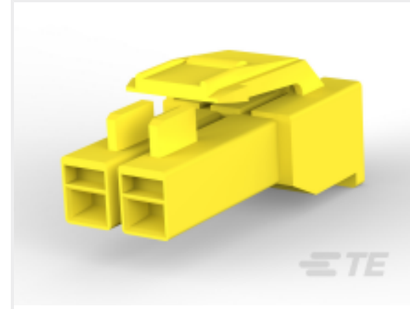
TE Part # 5-175175-8
U-POWER POST CONT F-0.64



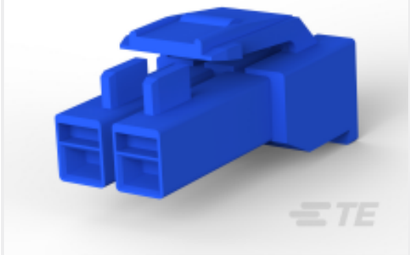
TE Part # 176271-9
AMP UNIVERSAL POWER PLUG 2P



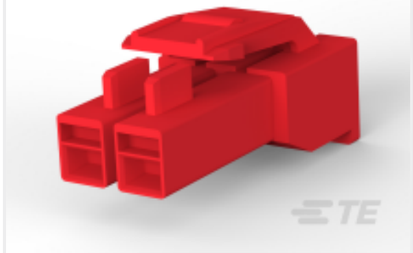
TE Part # 176271-1
AMP UNIVERSAL POWER PLUG 2P



TE Part # 176271-4
AMP UNIVERSAL POWER PLUG 2P



TE Part # 176271-6
AMP UNIVERSAL POWER PLUG 2P



TE Part # 176271-2
AMP UNIVERSAL POWER PLUG 2P

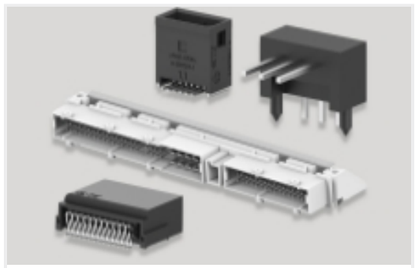
Also in the Series | AMP Universal Power



Connector Contacts(22)



Insertion & Extraction Tools(1)



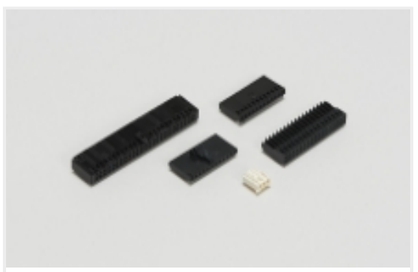
PCB Headers & Receptacles(51)



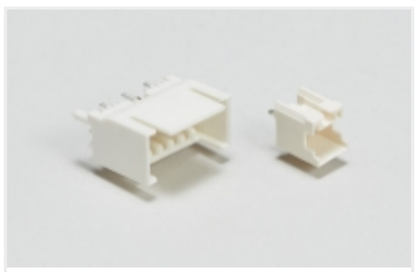
Power Contacts(21)



Rectangular Power Connectors(163)

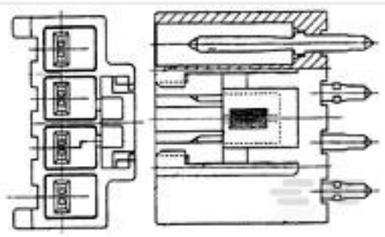


Wire-to-Board Connector Assemblies & Housings(13)



Wire-to-Board Headers & Receptacles (51)

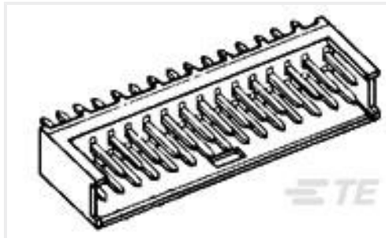
Customers Also Bought



TE Part #1-178487-1
UP 3.96 4P TAB HDR NAT TYPE 2



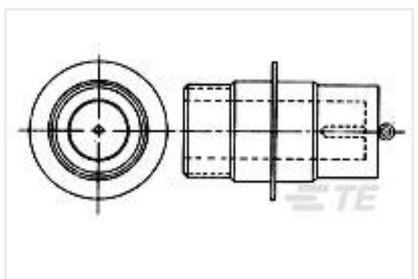
TE Part #1-188275-4
MICRO-MATCH SMD FTE



TE Part #280385-1
2X8P AMPMODU II SHRD HDR, ST, TIN



TE Part #6-535541-4
16 MODIV VRT SR CE 100/115



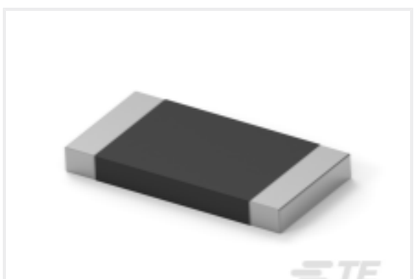
TE Part #5-861256-1
RECEPTACLE



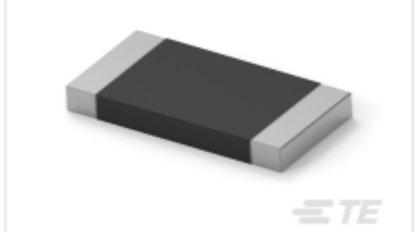
TE Part #1318386-2
025 16P PLUG HSG ASSY H-TYP



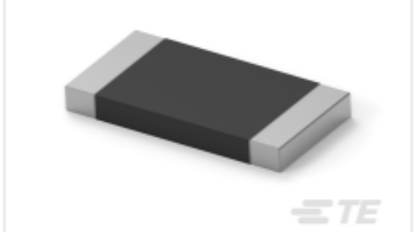
TE Part #1-2176331-1
CRGP 2512 68R 1%



TE Part #2-2176421-5
TLRP 2512 2.0W R040 1% 25PPM 4K RL



TE Part #5-2176422-5
TLRP 2512 3.0W R012 1% 50PPM 4K RL



TE Part #6-2176422-7
TLRP 2512 3.0W R050 1% 50PPM 4K RL

Documents

Product Drawings

AMP UNIVERSAL POWER PLG 2P PCB

Japanese

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-176975-1_F.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-176975-1_F.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-176975-1_F.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Crimping of Universal Power Contact

English

Product Specification

Japanese

AMP Universal Power Connector

Japanese

Instruction Sheets

AMP UNIVERSAL POWER CONNECTOR SERIES

English

Instruction Sheet (non U.S.)

English

Agency Approvals

UL Report

English