

AMP-LATCH | AMP-LATCH Universal Headers

TE Internal #: 5102321-7

AMP-LATCH Universal Headers, Ribbon Cable Connectors, Wire-to-Board, 30 Position, 2.54mm [.1in] Centerline, Vertical, Through Hole

- Solder

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Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > Ribbon Cable Connectors > AMP-LATCH UNIVERSAL HEADERS











Connector System: Wire-to-Board

Number of Positions: 30

Centerline (Pitch): 2.54 mm [.1 in]
PCB Mount Retention: Without
PCB Mount Orientation: Vertical

All AMP-LATCH UNIVERSAL HEADERS (525)

Features

Product Type Features

| Connector Type | Header |
|------------------------------------|--------------------------------|
| Ribbon Cable Connector Header Type | Universal Ejection Pin Headers |
| Connector Mating Latch & Lock Type | Long |
| Connector Product Type | Connector Assembly |
| Connector System | Wire-to-Board |
| Connector & Housing Type | Plug |
| Connector & Contact Terminates To | Printed Circuit Board |
| Configuration Features | |
| Number of Positions | 30 |
| PCB Mount Orientation | Vertical |

2

Electrical Characteristics

Number of Rows



| Connector Profile Connector Profile Contact Features Mating Square Post Dimension Contact Type Pin Contact Type Pin Contact Mating Area Plating Material Thickness Pin Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Shape & Form Contact Underplating Material Contact Underplating Material Contact Underplating Material Contact Underplating Material Contact Base Material Contact Current Rating (Max) Tin Contact Current Rating (Max) 1 A Contact Current Rating (Max) 1 A Contact Current Rating (Max) Termination Post & Tail Diemeter Contact Current Rating (Max) Contact Current Rating (Max) With Contact Attachment Mating Alignment Without PCB Mount Alignment Without PCB Mount Retention Mating Alignment Type Mating Retention Type Connector Mounting Type Board Mount Mating Retention Type Connector Mounting Type Board Mount Fjection Latch Mating Retention Type Fjection Latch Fjection Latch Figetion Latc | | |
|--|---|------------------------------|
| Connector Profile Contact Features Mailing Square Post Dimension PCB Contact Termination Area Plating Material Thickness 2.54 pm/(100 pin) Contact Type Pin Contact Masing Area Plating Material Thickness 7.54 pm/(30 pin) Contact Masing Area Plating Material Thickness 7.54 pm/(30 pin) Contact Masing Area Plating Material Contact Shape & Form Square Contact Underplating Material Nickel PCB Contact Termination Area Plating Material Tin Centact Base Material Contact Current Rating (Max) 1.A Termination Features Round Termination Post & Tail Diameter 4.44 mm/(.025 in) Termination Post & Tail Length 3.94 mm/(.155 in) Termination Method to Printed Circuit Board Through Hole - Solder Mating Alignment Mating Alignment Without PCB Mount Retention Without Panel Mount Retention Without Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Mating Retention Mating Retention Type Connector Mounting Type Consecution Collass Hilled Nylon/Polyester Housing Material Cilias Hilled Nylon/Polyester | Insulation Resistance | 5000 ΜΩ |
| Connector Profile Connector Profile Connector Profile Contact Termination Area Plating Material Thickness Contact Type Pin Contact Mating Area Plating Material Thickness Contact Mating Area Plating Material Thickness Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Shape & Form Contact Underplating Material Contact Underplating Material Contact Underplating Material Contact Underplating Material Contact Base Material Contact Base Material Contact Current Rating (Max) In | Operating Voltage | 250 VAC |
| Mating Square Post Dimension | Body Features | |
| Mating Square Post Dimension PCB Contact Termination Area Plating Material Thickness Contact Type Prin Contact Mating Area Plating Material Thickness Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Shape & Form Square Contact Underplating Material PCB Contact Termination Area Plating Material Trin Contact Base Material Copper Alloy Contact Current Rating (Max) Tormination Features Round Termination Post & Tail Diameter Add mm[,025 in] Termination Post & Tail Length Termination Method to Printed Circuit Board Mating Alignment PCB Mount Alignment PCB Mount Retartion Mating Alignment Type Mating Alignment Type Mating Alignment Type Mating Retention Mating Retention Mating Retention Mating Retention Type Connector Mounting Type Board Mount Housing Material Collass Filled Nylon/Polyester Housing Material Class Filled Nylon/Polyester Black | Connector Profile | Standard |
| PCB Contact Termination Area Plating Material Thickness 2.54 µm (100 µin) (Contact Type Pin (Contact Mating Area Plating Material Thickness 7.6 µm (30 µin) (Contact Mating Area Plating Material (Contact Mating Area Plating Material (Contact Shape & Form Square (Contact Underplating Material Nickel (PCB Contact Termination Area Plating Material Tin (Contact Base Material Copper Alloy (Contact Gurrent Rating (Max) 1A (Contact Gurrent Ra | Contact Features | |
| Contact Type Contact Mating Area Plating Material Thickness Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Shape & Form Square Contact Underplating Material Nickel PCB Contact Termination Area Plating Material Tin Contact Base Material Contact Current Rating (Max) 1 A Fermination Features Round Termination Post & Tail Diameter Mechanical Attachment Mating Alignment Without PCB Mount Alignment Without PCB Mount Retention Mating Alignment Type Mating Retention Mating Retenti | Mating Square Post Dimension | .64 mm[.025 in] |
| Contact Mating Area Plating Material Thickness | PCB Contact Termination Area Plating Material Thickness | 2.54 μm[100 μin] |
| Contact Mating Area Plating Material Square Contact Underplating Material Nickel PCB Contact Termination Area Plating Material Tin Contact Base Material Copper Alloy Contact Current Rating (Max) 1A Femination Features Round Termination Post & Tail Diameter & 64 mm[.025 in] Termination Post & Tail Length 3.94 mm[.155 in] Termination Method to Printed Circuit Board Through Hole - Solder Mechanical Attachment Mating Alignment Without PCB Mount Alignment Without PCB Mount Retention Without PCB Mount Retention Without Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Type Cipction Latch Connector Mounting Type Board Mount Housing Features Housing Material Glass Filled Nylon/Polyester Housing Material Glass Filled Nylon/Polyester Housing Color | Contact Type | Pin |
| Contact Underplating Material Nickel PCB Contact Termination Area Plating Material Tin Contact Base Material Copper Alloy Contact Current Rating (Max) 1 A Fermination Features Round Termination Post & Tail Diameter 64 mml,025 in] Termination Post & Tail Length 3.94 mml,155 in] Termination Method to Printed Circuit Board Through Hole - Solder Mechanical Attachment With PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention Without Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Type Consector Mounting Type Board Mount Housing Features Housing Material Housing Color Black | Contact Mating Area Plating Material Thickness | .76 μm[30 μin] |
| Contact Underplating Material PCB Contact Termination Area Plating Material Contact Base Material Contact Base Material Contact Current Rating (Max) I A Fermination Features Round Termination Post & Tail Diameter Germination Post & Tail Length Termination Method to Printed Circuit Board Mating Alignment PCB Mount Alignment PCB Mount Retention Mating Alignment Type Mating Alignment Type Mating Alignment Type Mating Retention Type Genter, Dual Polarizing Bar Mating Retention Type Board Mount Mating Retention Type Genter, Dual Polarizing Bar Mating Retention Type Board Mount Mating Retention Type Board Mount Housing Features Housing Material Housing Color | Contact Mating Area Plating Material | Gold, Gold Flash |
| PCB Contact Termination Area Plating Material Contact Base Material Contact Current Rating (Max) I A Fermination Features Round Termination Post & Tail Diameter Sermination Post & Tail Length Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment PCB Mount Alignment PCB Mount Retention Mating Alignment Type Mating Alignment Type Contect Mounting Type Connector Mounting Type Goldson Connector Mounting Type Housing Features Housing Material Housing Color Black | Contact Shape & Form | Square |
| Contact Base Material Contact Current Rating (Max) 1A Fermination Features Round Termination Post & Tail Diameter | Contact Underplating Material | Nickel |
| Contact Current Rating (Max) Fermination Features Round Termination Post & Tail Diameter | PCB Contact Termination Area Plating Material | Tin |
| Round Termination Post & Tail Diameter | Contact Base Material | Copper Alloy |
| Round Termination Post & Tail Diameter | Contact Current Rating (Max) | 1 A |
| Termination Post & Tail Length Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment Panel Mount Feature PCB Mount Retention Mating Alignment Type Mating Alignment Type Mating Retention Mating Retention Type Connector Mounting Type Housing Features Housing Material Housing Color Black | Termination Features | |
| Termination Method to Printed Circuit Board Mechanical Attachment Mating Alignment Mount Alignment PCB Mount Alignment PCB Mount Retention Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Material Housing Color Black | Round Termination Post & Tail Diameter | .64 mm[.025 in] |
| Mechanical Attachment Mating Alignment PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Color Black | Termination Post & Tail Length | 3.94 mm[.155 in] |
| Mating Alignment PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention Without Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Color Black | Termination Method to Printed Circuit Board | Through Hole - Solder |
| PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention Without Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Material Glass Filled Nylon/Polyester Housing Color Black | Mechanical Attachment | |
| Panel Mount Feature PCB Mount Retention Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Color Black | Mating Alignment | With |
| PCB Mount Retention Without Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Material Glass Filled Nylon/Polyester Housing Color Black | PCB Mount Alignment | Without |
| Mating Alignment Type Mating Retention Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Color Black | Panel Mount Feature | Without |
| Mating Retention Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Material Housing Color Black | PCB Mount Retention | Without |
| Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Material Glass Filled Nylon/Polyester Housing Color Black | Mating Alignment Type | Center, Dual Polarizing Bar |
| Connector Mounting Type Housing Features Housing Material Housing Color Black | Mating Retention | With |
| Housing Features Housing Material Glass Filled Nylon/Polyester Black | Mating Retention Type | Ejection Latch |
| Housing Material Housing Color Glass Filled Nylon/Polyester Black | Connector Mounting Type | Board Mount |
| Housing Color Black | Housing Features | |
| | Housing Material | Glass Filled Nylon/Polyester |
| Centerline (Pitch) 2.54 mm[.1 in] | Housing Color | Black |
| | Centerline (Pitch) | 2.54 mm[.1 in] |



Dimensions

| Shrouded End Dimension | 3.81 mm[.15 in] |
|-----------------------------|-------------------|
| Connector Length | 57.4 mm[2.26 in] |
| Connector Height | 13.94 mm[.548 in] |
| PCB Thickness (Recommended) | 3.18 mm[.125 in] |
| Row-to-Row Spacing | 2.54 mm[.1 in] |

Usage Conditions

| Housing Temperature Rating | Standard |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |

Operation/Application

| Circuit Application | Signal | |
|---------------------|--------|--|

Industry Standards

| UL Flammability Rating | UL 94V-0 | |
|------------------------|----------|--|

Packaging Features

| Packaging Quantity | 18 |
|--------------------|------|
| Packaging Method | Tray |

Other

| Comment | Mates with Receptacles |
|---------|------------------------|
|---------|------------------------|

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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) 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





30 NOVO MIL/CTR 15DP, LEAD FREE





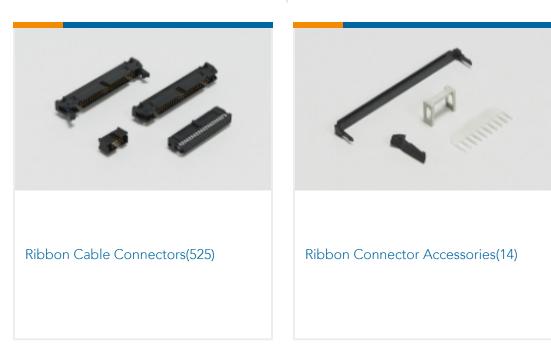








Also in the Series | AMP-LATCH Universal Headers



Customers Also Bought





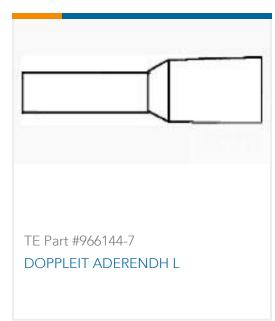
Alignment

















Documents

Product Drawings

A/L UNIV HDR 30P VERT LG LAT

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5102321-7_C2.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5102321-7_C2.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5102321-7_C2.3d_stp.zip

English

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Datasheets & Catalog Pages



Ribbon Cable Interconnect Solutions

English

Product Specifications

Product Specification

English

Product Environmental Compliance

MD_5102321-7_01192017450_dmtec

English

MD_5102321-7_01192017450_dmtec

English