

#### AMP-LATCH | AMP-LATCH Universal Headers

TE Internal #: 5499910-9

AMP-LATCH Universal Headers, Ribbon Cable Connectors, Wire-to-Board, 40 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: 40

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

PCB Mount Retention Type: Mounting Ears

All AMP-LATCH UNIVERSAL HEADERS (525)

# **Features**

# **Product Type Features**

| 1 Todaet Type Teatares             |                                |
|------------------------------------|--------------------------------|
| Connector Type                     | Header                         |
| Ribbon Cable Connector Header Type | Universal Ejection Pin Headers |
| Connector Mating Latch & Lock Type | Short                          |
| 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                | 40                             |
| PCB Mount Orientation              | Vertical                       |

## **Electrical Characteristics**

Number of Rows



| Connector Profile Connector Profile Connector Features  Mating Square Post Dimension PCB Contact Termination Area Plating Material Thickness 2.54 µm[100 µin] Contact Type Pin 15 pin Contact Mating Area Plating Material Contact Shape & Form Square PCB Contact Termination Area Plating Material Contact Shape & Form PCB Contact Termination Area Plating Material Tin Contact Base Material Contact Current Rating (Max) 1.A  Fermination Features  Round Termination Post & Tail Diameter Afechanical Attachment  Mating Alignment PCB Mount Alignment PCB Mount Retention PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Retention Mating Retention Type Mating Retenti |   |                              |
|--|---|------------------------------|
| Connector Profile Contact Features  Mating Square Post Dimension PCB Contact Termination Area Plating Material Thickness 2.54 pm/100 pin  Contact Type Pin 15 pin Contact Mating Area Plating Material Contact Shape & Form Square PCB Contact Termination Area Plating Material Tin Contact Base Material Brass, Phosphor Bronze Contact Current Railing (Max) 1 A Contact Shape & Form  With Contact Current Railing (Max) 1 A Contact Shape & Form  Without PCB Mount Alignment PCB Mount Retention PCB Mount Retention Type Mating Retention With Mating Retention Type Mating Resention With Mating Retention Type Mating Resention With Mating Resention With Mating Resention With Mating Resention Type Connector Mounting Type Connector Mounting Type Connector Mounting Type Collass Filled Nylon/Polyester Housing Color Black  | Insulation Resistance                                   | 5000 MΩ                      |
| Contact Profile Contact Features  Mating Square Post Dimension PCB Contact Termination Area Plating Material Thickness 254 µm [100 µm] Contact Type Pin 15 µm Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Shape & Form Square PCB Contact Termination Area Plating Material Contact Shape & Form Square PCB Contact Termination Area Plating Material Tin Contact Base Material Brass, Phosphor Bronze Contact Current Rating (Max) 1 A  Fermination Features Round Termination Post & Tail Diameter 4.64 mm [025 in] Termination Post & Tail Diameter 4.64 mm [025 in] Termination Post & Tail Diameter 4.64 mm [025 in] Termination Post & Tail Length 7.79 mm [11 in] Termination Method to Printed Crouit Board 4.64 mm [025 in] Through Hole Solder 4.64 mm [025 in] 4 | Operating Voltage                                       | 250 VAC                      |
| Marting Square Post Dimension .64 mm (.025 in.) PCB Contact Termination Area Plating Material Thickness .254 pm (100 pin.) Contact Type  | Body Features   |                              |
| Mating Square Post Dimension  PCB Contact Termination Area Plating Material Thickness Contact Type Pin 15 pin Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Contact Shape & Form Square PCB Contact Termination Area Plating Material Tin Contact Base Material Brass, Phosphor Bronze Contact Current Rating (Max) 1 A Contact Current Rating (Max) 1 A Contact Current Rating (Max) Termination Features Round Termination Post & Tail Diameter Area Mating Alignment Method to Printed Circuit Board Methanical Attachment Mating Alignment PCB Mount Alignment PCB Mount Retention PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Retention Mithout PCB Mount Retention PCB Mount Retention Type Mating Retention Mithout PCB Mount Retention Type Mating Retention Mithout Mithout PCB Mount Retention PCB Mount Retention Type Mating Retention Mithout Mating Retention Type Genter, Dual Polarizing Bar Mating Retention Form Retention Glass Filled Nylon/Polyester Housing Color   | Connector Profile                                       | Standard                     |
| PCB Contact Termination Area Plating Material Thickness 2.54 µm [100 µin]  Contact Type Pin  | Contact Features  |                              |
| Contact Type Pin 15 µin | Mating Square Post Dimension                            | .64 mm[.025 in]              |
| Contact Mating Area Plating Material Gold Contact Shape & Form Square PCB Contact Termination Area Plating Material Tin Contact Base Material Brass, Phosphor Bronze Contact Current Rating (Max) 1A Contact Mating Alignment Type 1A Contact Mating Alignment Type 1A Contact Mating Ratention Type 1A Contact Mounting Type 1A Contact Mounting Type 1A Contact Mounting Type 1B Contact Mating Raterial 1B College Current Rating Material 1B College Current Rating Material 1B Contact Termination Post & Figure 1A Contact Current Rating Material 1B Contact Current Rat | PCB Contact Termination Area Plating Material Thickness | 2.54 μm[100 μin]             |
| Contact Mating Area Plating Material Square  PCB Contact Termination Area Plating Material Tin  Contact Base Material Brass, Phosphor Bronze  Contact Current Rating (Max) 1A  Fermination Features  Round Termination Post & Tail Diameter & .64 mm[.025 in]  Termination Post & Tail Diameter & .79 mm[.11 in]  Termination Method to Printed Circuit Board Through Hole - Solder  Mechanical Attachment  Mating Alignment Without  PCB Mount Alignment Without  PCB Mount Retention  PCB Mount Retention  Without  PCB Mount Retention Type Mounting Fars  Mating Alignment Type Center, Dual Polarizing Bar  Mating Retention With  Mating Retention Type Board Mount  Mounting Features  Housing Material Glass Filled Nylon/Polyester  Housing Color  Black   | Contact Type  | Pin                          |
| Contact Shape & Form PCB Contact Termination Area Plating Material Contact Base Material Contact Base Material Contact Current Rating (Max) 1 A  Fermination Features Round Termination Post & Tail Diameter Termination Post & Tail Length 2.79 mm[.11 in] Termination Method to Printed Circuit Board Mechanical Attachment  Mating Alignment With PCB Mount Alignment Without Panel Mount Feature PCB Mount Retention Without PCB Mount Retention Without PCB Mount Retention Type Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Mating Retention Type Board Mount Mating Retention Type Gonector Mounting Type Board Mount Bo |   | 15 μin                       |
| PCB Contact Termination Area Plating Material Contact Base Material Contact Current Rating (Max) 1 A Fermination Features Round Termination Post & Tail Diameter Round Termination Post & Tail Diameter Round Termination Post & Tail Length 2.79 mml_11 in] Termination Method to Printed Circuit Board Rechanical Attachment With PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention PCB Mount Retention Type Mounting Ears Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Type Ejection Latch Mating Retention Type Board Mounting Ears Mating Retention Type Board Mounting Feature PCB Mounting Feature Rating Retention Type Board Mounting Retention With Mating Retention Type Board Mounting Features Housing Material Housing Material Housing Color  | Contact Mating Area Plating Material                    | Gold                         |
| Contact Base Material Brass, Phosphor Bronze Contact Current Rating (Max) 1 A  Fermination Features  Round Termination Post & Tail Diameter .64 mm[.025 in] Termination Post & Tail Length 2.79 mm[.11 in] Termination Method to Printed Circuit Board Through Hole - Solder  Mechanical Attachment  Mating Alignment Without  Panel Mount Feature Without  PCB Mount Retention PCB Mount Retention Type Mounting Ears  Mating Alignment Type Center, Dual Polarizing Bar  Mating Retention Type Ejection Latch  Mating Retention Type Board Mount  Mounting Type Board Mount  Mounting Retention Type Board Mount  Mating Retention Type Board Mount  Mating Retention Type Board Mount  Mounting Features  Housing Material Glass Filled Nylon/Polyester  Housing Color  | Contact Shape & Form                                    | Square                       |
| Contact Current Rating (Max)  fermination Features  Round Termination Post & Tail Diameter   | PCB Contact Termination Area Plating Material           | Tin                          |
| Round Termination Post & Tail Diameter .64 mm[.025 in]  Termination Post & Tail Length .2.79 mm[.11 in]  Termination Method to Printed Circuit Board .Through Hole - Solder  Mechanical Attachment  Mating Alignment .Without  Panel Mount Feature .Without  PCB Mount Retention Type .Mounting Ears  Mating Alignment Type .Center, Dual Polarizing Bar  Mating Retention Type .Ejection Latch  Mating Retention Type .Board Mounting Type .Board Mount .Board Mounting Type .Board Mo | Contact Base Material                                   | Brass, Phosphor Bronze       |
| 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 PCB Mount Alignment Without PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mounting Retention With Mating Retention Type Mounting Retention With Mounting Retention Type Board Mount Mating Retention Type Board Mount Mating Retention Type Board Mount Mounting Type Board Mount Board Mount Bousing Features Housing Material Housing Color  Black  | Termination Features                                    |                              |
| Termination Method to Printed Circuit Board  Mechanical Attachment  Mating Alignment  PCB Mount Alignment  Without  PCB Mount Retention  PCB Mount Retention Type  Mating Alignment Type  Mounting Ears  Mating Retention  Mating Retention Type  Mounting Ears  Mounting Retention Type  Mounting Ears  Mounting Retention  Mounting Ears  Mounting Retention  Mounting Ears  Moun | Round Termination Post & Tail Diameter                  | .64 mm[.025 in]              |
| Mating Alignment Mating Alignment Mount Alignment Mount Feature Mount Retention PCB Mount Retention Type Mount Retention Mating Alignment Type Mount Retention Mounting Ears Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Material Housing Color  Mating Color  Black   | Termination Post & Tail Length                          | 2.79 mm[.11 in]              |
| Mating Alignment Without PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention Without PCB Mount Retention Type Mounting Ears Mating Alignment Type Center, Dual Polarizing Bar 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 PCB Mount Retention Type Mounting Ears Mating Alignment Type Center, Dual Polarizing Bar Mating Retention 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  PCB Mount Retention Type  Mounting Ears  Mating Alignment Type  Center, Dual Polarizing Bar  With  Mating Retention  Mating Retention Type  Ejection Latch  Connector Mounting Type  Board Mount  Housing Features  Housing Material  Housing Color  Black   | Mating Alignment  | With                         |
| PCB Mount Retention PCB Mount Retention Type Mounting Ears 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   | PCB Mount Alignment                                     | Without                      |
| PCB Mount Retention Type Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Housing Material Housing Color Black  | Panel Mount Feature                                     | 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 Housing Color Black   | PCB Mount Retention                                     | Without                      |
| Mating Retention  Mating Retention Type  Ejection Latch  Connector Mounting Type  Board Mount  Housing Features  Housing Material  Housing Color  Black  | PCB Mount Retention Type                                | Mounting Ears                |
| 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  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]   |
|-----------------------------|-------------------|
|                             | 2.76 in           |
| Connector Height            | 13.94 mm[.549 in] |
| PCB Thickness (Recommended) | 1.57 mm[.062 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  |  |
|---------------------|---------|--|
|                     | 2.9.13. |  |

# **Industry Standards**

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

# **Packaging Features**

| Packaging Quantity | 24   |
|--------------------|------|
| 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: 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





40 NOVO MIL 15DP, LEAD FREE



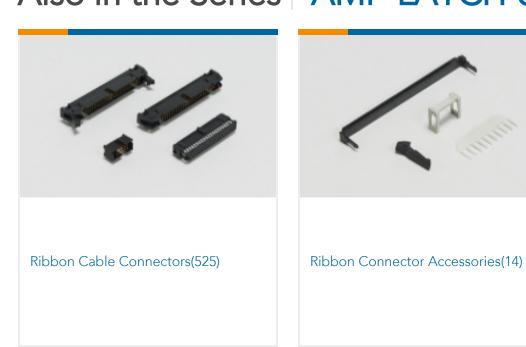








# Also in the Series | AMP-LATCH Universal Headers



# Customers Also Bought





Shell Size 4, 2.77mm



















# **Documents**

## **Product Drawings**

A/L UNIV HDR 40P VERT SHT LAT

English

# **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_5499910-9\_B.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5499910-9\_B.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5499910-9\_B.3d\_stp.zip

English

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

# Datasheets & Catalog Pages

**Ribbon Cable Interconnect Solutions** 

English

# **Product Specifications**

**Product Specification** 

English

# **Product Environmental Compliance**

MD\_5499910-9\_05092013940\_dmtec

AMP-LATCH Universal Headers, Ribbon Cable Connectors, Wire-to-Board, 40 Position, 2.54mm [.1in] Centerline, Vertical, Through Hole - Solder



English

MD\_5499910-9\_05092013940\_dmtec

English