# 1-5499910-0 ACTIVE

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

TE Internal #: 1-5499910-0

Ribbon Cable Connectors, Wire-to-Board, 50 Position, .1 in [2.54 mm] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-

LATCH Universal Headers

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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: 50

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**

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	50
PCB Mount Orientation	Vertical

2

## **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 Without PCB Mount Alignment PCB Mount Retention PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Retention Mating Retention Type Fjection Latch Mating Retention Type Fjection Latch Mating Retention Type Mating Retention Type Mating Retention Type Mating Retention Type Fjection Latch Mating Retention Type Matin		
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 ΜΩ
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 64 mm [025 in] Termination Post & Tail Diameter 80 dechenical Attachment  Mating Alignment With PCB Mount Alignment Without Panel Mount Feature PCB Mount Retention Without PCB Mount Retention PCB Mount Retention Without PCB Mount Retention PCB Mount Retention With Mating Alignment Type Center, Dual Polarizing Bar Mating Alignment Type Center, Dual Polarizing Bar Mating Retention Mating Retention Mating Retention Mating Retention Type Connector Mounting Type Board Mount Connector Mounting Type Board Mount Mating Retention Mating Retention Mating Retention Type Connector Mounting Type Board Mount Class Filled Nylon/Polyester Bousing Material Housing Color	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 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 Through Hole - Solder  Mechanical Attachment  Mating Alignment Without Panel Mount Feature PCB Mount Retention PCB Mount Retention 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 Gonnector Mounting Type Board Mount Board Mount Board Mount Bousing Features Housing Material Housing Color		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 Type Board Mount  Mounting 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 Mating Retention With Mating Retention Type Solder  Mating Retention Type  Mounting Ears  Mating Retention Mith Mating Retention Type Solder  Board Mount  Housing 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  Ejection Latch  Connector Mounting Type  Housing Features  Housing Material  Housing Color  Through Hole - Solder  With  With  Solder  Bars  Glass Filled Nylon/Polyester  Housing Color	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]
	3.26 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	
	3191131	

## **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 2022 (223) Candidate List Declared Against: JAN 2022 (223) 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

Ribbon Cable Connectors, Wire-to-Board, 50 Position, .1 in [2.54 mm] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-LATCH Universal Headers



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

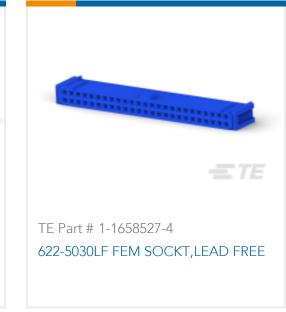
# **Compatible Parts**





50 NOVO MIL/CTR 15DP, LEAD FREE













# Also in the Series | AMP-LATCH Universal Headers





# Customers Also Bought



















# **Documents**

## **Product Drawings**

A/L UNIV HDR 50P VERT SHT LAT

English

#### **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_1-5499910-0\_B.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1-5499910-0\_B.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1-5499910-0\_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**

**Product Compliance** 

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**Product Compliance** 

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