

AMP-LATCH | AMP-LATCH Universal Headers

TE Internal #: 5102154-9

Ribbon Cable Connectors, Wire-to-Board, 40 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-LATCH

Universal Headers

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Connector System: Wire-to-Board

Number of Positions: 40

Centerline (Pitch): 2.54 mm [.1 in]

PCB Mount Retention: With

PCB Mount Retention Type: Screw Mount

All AMP-LATCH UNIVERSAL HEADERS (525)

Features

Product Type Features

Connector Type	Header
Ribbon Cable Connector Header Type	Universal Ejection Pin Headers
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
Number of Rows	2
Electrical Characteristics	

 $5000~\mathrm{M}\Omega$

Insulation Resistance



Connector Profile Contact Features Mating Square Post Dimension PCB Contact Termination Area Plating Material Thickness Contact Type Pin 30 μin 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 PCB Contact Termination Area Plating Material Tin Contact Base Material Contact Current Rating (Max) I A Fermination Features Round Termination Post & Tail Diameter Termination Post & Tail Length Termination Method to Printed Circuit Board Wechanical Attachment Mating Alignment PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention Type Mating Alignment Iype Mating Retention Mating Retention Mating Retention Type Board Mount		
Connector Profile Contact Features Mating Square Post Dimension PCB Contact Termination Area Plating Material Lhickness Contact Type Prin 30 pin Contact Mating Area Plating Material Contact Underplating Material Contact Underplating Material Contact Shape & Form Contact Underplating Material PCB Contact Termination Area Plating Material Tin Contact Base Material Contact Gurrent Rating (Max) 1 A Termination Features Round Termination Post & Tail Diameter Area Mating Alignment Post & Tail Length Termination Post & Tail Length Termination Method to Printed Circuit Board With PCB Mount Alignment With PCB Mount Alignment PCB Mount Retention PCB Mount Retention Type Mating Alignment Type Mating Alignment Type Mating Alignment Type Mating Retention Mating Alignment Type Mating Retention Mating Alignment Type Mating Retention Type Mating Retention Type Mating Retention Type Mating Retention Type Top Mating Retention Type Top Mating Retention Type Mating Retention Type Top Mating Retention Type Top Mating Entry Location Top Mating Entry Location Top Mating Entry Location Top Mating Material	Operating Voltage	250 VAC
Mating Square Post Dimension	Body Features	
Mating Square Post Dimension PCB Contact Termination Area Plating Material Thickness Contact Type Prin 30 pin 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 PCB Contact Termination Post & Tail Dimeter Indication Features Round Termination Post & Tail Dimeter Indication Post & Tail Dimeter Indicatio	Connector Profile	Standard
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Contact Mating Area Plating Material Gold, Gold Flash over Palladium Nickel Contact Shape & Form Square Contact Underplating Material Nickel PCB Contact Termination Area Plating Material Tin Contact Base Material Phosphor Bronze Contact Current Rating (Max) 1 A Fermination Features Round Termination Post & Tail Diameter	PCB Contact Termination Area Plating Material Thickness	2.54 μm[100 μin]
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Contact Base Material Phosphor Bronze Contact Current Rating (Max) 1 A Fermination Features Round Termination Post & Tail Diameter	Contact Underplating Material	Nickel
Contact Current Rating (Max) Fermination Features Round Termination Post & Tail Diameter .64 mm[.025 in] Termination Post & Tail Length .279 mm[.11 in] Termination Method to Printed Circuit Board .Through Hole - Solder Mechanical Attachment Mating Alignment .With PCB Mount Alignment .Without Panel Mount Feature .Without PCB Mount Retention .With PCB Mount Retention Type .Screw Mount Mating Alignment Type .Center, Dual Polarizing Bar Mating Retention .With Mating Retention Type .Ejection Latch Connector Mounting Type .Board Mount Housing Features Mating Entry Location .Top Housing Material .Nylon - GF	PCB Contact Termination Area Plating Material	Tin
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Mating Alignment PCB Mount Alignment Without Panel Mount Feature Without PCB Mount Retention PCB Mount Retention PCB Mount Retention Type Screw Mount Mating Alignment Type Center, Dual Polarizing Bar Mating Retention With Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Mating Entry Location Housing Material Nylon - GF	Termination Method to Printed Circuit Board	Through Hole - Solder
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Mating Alignment Type Mating Retention Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Mating Entry Location Top Housing Material	PCB Mount Retention	With
Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Mating Entry Location Top Housing Material Nylon - GF	PCB Mount Retention Type	Screw Mount
Mating Retention Type Ejection Latch Connector Mounting Type Board Mount Housing Features Mating Entry Location Top Housing Material Nylon - GF	Mating Alignment Type	Center, Dual Polarizing Bar
Connector Mounting Type Housing Features Mating Entry Location Top Housing Material Nylon - GF	Mating Retention	With
Housing Features Mating Entry Location Top Housing Material Nylon - GF	Mating Retention Type	Ejection Latch
Mating Entry Location Top Housing Material Nylon - GF	Connector Mounting Type	Board Mount
Housing Material Nylon - GF	Housing Features	
	Mating Entry Location	Тор
Housing Color Black	Housing Material	Nylon - GF
	Housing Color	Black



Centerline (Pitch)	2.54 mm[.1 in]
Dimensions	
Shrouded End Dimension	3.81 mm[.15 in]
Connector Length	70.1 mm[2.76 in]
Connector Height	13.94 mm[.55 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Row-to-Row Spacing	2.54 mm[.1 in]
Usage Conditions	
Housing Temperature Rating	High
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	40
Packaging Method	Tray
Other	

Product Compliance

Comment

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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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

For Use With AMP-Latch Receptacle



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





















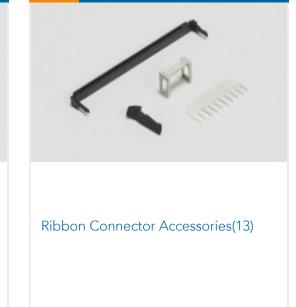




Also in the Series | AMP-LATCH Universal Headers







Documents

Product Drawings

A/L UNIV HDR 40P VERT

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5102154-9_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5102154-9_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5102154-9_C.3d_stp.zip

English

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Datasheets & Catalog Pages

AMPMODU_INTERCONNECTION_SYSTEM_SECTION5

English

Ribbon Cable Interconnect Solutions

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Product Specifications

Product Specification

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Product Environmental Compliance

TE Material Declaration

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Agency Approvals

Agency Approval Document

English

Ribbon Cable Connectors, Wire-to-Board, 40 Position, 2.54 mm [.1 in] Centerline, Vertical, Through Hole - Solder, 2 Row, AMP-LATCH Universal Headers

