

1-770858-1 ✓ ACTIVE

MATE-N-LOK | Mini-Universal MATE-N-LOK

TE Internal #: 1-770858-1

PCB Mount Header, Vertical, Wire-to-Board, 10 Position, 4.14 mm [.162 in] Centerline, Fully Shrouded, Gold (Au), Mini-Universal MATE-N-LOK

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **10**

Centerline (Pitch): **4.14 mm [.162 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

Connector Contact Load Condition	Fully Loaded
Number of Columns	5
Number of Loaded Positions	10
PCB Mount Orientation	Vertical
Number of Positions	10



Number of Rows	2
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Number of Power Positions	10
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Electrical Characteristics

Operating Voltage	600 VDC
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Body Features

PCB Retention Feature Material	Nylon
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Primary Product Color	White
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Contact Features

Contact Underplating Material	Nickel
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Mating Pin Diameter	1 mm [.039 in]
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Contact Underplating Material Thickness	1.27 μ m [50 μ in]
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Contact Size	1mm
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Contact Base Material	Brass
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PCB Contact Termination Area Plating Material Finish	Matte
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PCB Contact Termination Area Plating Material Thickness	3.81 – 8.89 μ m [150 – 350 μ in]
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Contact Shape & Form	Round
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Contact Layout	Matrix
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Contact Mating Area Plating Material	Gold (Au)
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Contact Mating Area Plating Material Thickness	.76 μ m [30 μ in]
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Contact Type	Pin
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Contact Current Rating (Max)	9.5 A
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PCB Contact Termination Area Plating Material	Tin
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Termination Features

Termination Post & Tail Diameter	1 mm [.039 in]
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Termination Post & Tail Length	3.69 mm [.145 in]
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Termination Method to PCB	Through Hole - Solder
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Mechanical Attachment

Panel Mount Feature	Without
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Mating Alignment Type	Chamfered Edges
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PCB Mount Retention Type	Boardlock
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Mating Retention Type	Locking Tab
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PCB Mount Alignment	Without
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Mating Retention	With
PCB Mount Retention	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	4.14 mm [.162 in]
Housing Material	Nylon

Dimensions

Row-to-Row Spacing	4.14 mm [.162 in]
Connector Width	11.88 mm [.468 in]
Connector Height	13.49 mm [.531 in]
Connector Length	22.28 mm [.877 in]
PCB Thickness (Recommended)	1.57 mm [.062 in]
Profile Height from PCB	14.25 mm [.56 in]

Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
Operating Temperature Range	-55 – 105 °C [-67 – 221 °F]

Operation/Application

Circuit Application	Power
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Industry Standards

Compatible With Agency/Standards Products	CSA, UL
UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	100
Packaging Method	Bag

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

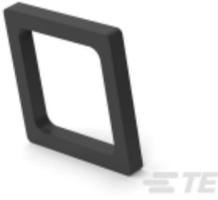


EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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

<p>TE Part # 2-794772-0 20P MINI UMNL SEAL,DIE CUT</p>	<p>TE Part # 3-794772-8 014P MINI UMNL INTERFACE SEAL</p>	<p>TE Part # 4-794772-2 022P MINI UMNL INTERFACE SEAL</p>	<p>TE Part # 3-794772-7 012P MINI UMNL INTERFACE SEAL</p>
 <p>TE Part # 3-794772-3 04P MINI UMNL INTERFACE SEAL</p>	 <p>TE Part # 770580-1 10P MINI UMNL PLUG HSG</p>	 <p>TE Part # 794772-4 04P MINI UMNL SEAL,DIE CUT</p>	 <p>TE Part # 794772-2 02P MINI UMNL SEAL,DIE CUT</p>

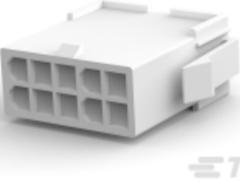



TE Part # 794196-1
10P MINI UMNL2 PLUG HSG UL94V0

TE Part # 3-794772-2
02P MINI UMNL INTERFACE SEAL

TE Part # 4-794772-0
018P MINI UMNL INTERFACE SEAL

TE Part # 2-794772-2
22P MINI UMNL SEAL,DIE CUT



TE Part # 794942-1
10P MINI UMNL CAP HSG

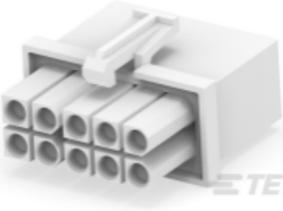


TE Part # 794772-8
08P MINI UMNL SEAL,DIE CUT

TE Part # 3-794772-4
06P MINI UMNL INTERFACE SEAL

TE Part # 4-794772-1
020P MINI UMNL INTERFACE SEAL

TE Part # 3-794772-5
08P MINI UMNL INTERFACE SEAL



TE Part # 794781-1
10P MINI UMNL PLUG HSG

TE Part # 3-794772-9
016P MINI UMNL INTERFACE SEAL

TE Part # 4-794772-3
024P MINI UMNL INTERFACE SEAL

Also in the Series | **Mini-Universal MATE-N-LOK**



Connector Caps & Covers(2)



Connector Contacts(89)



Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



Insertion & Extraction Tools(1)



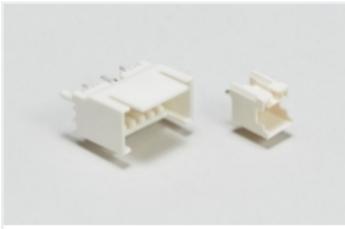
PCB Headers & Receptacles(93)



Power Contacts(89)

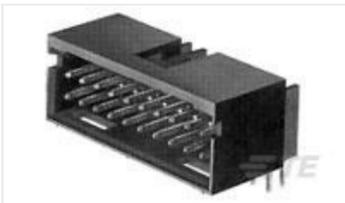


Rectangular Power Connectors(196)

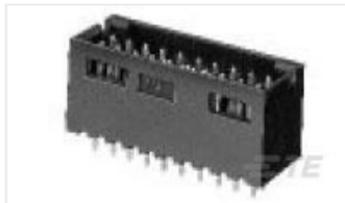


Wire-to-Board Headers & Receptacles (93)

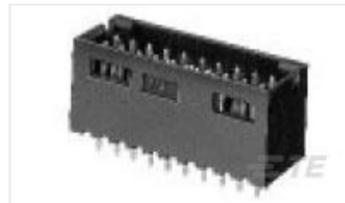
Customers Also Bought



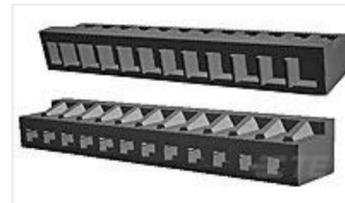
TE Part #5-102617-1
06 MODII HDR DRRA SHRD LF



TE Part #5-103168-5
14 MODII HDR DRST SHRD .100CL



TE Part #5-103168-8
20 MODII HDR DRST SHRD .100CL



TE Part #172520-2
2P 2.5MM MINI AMP-IN HDR HSG



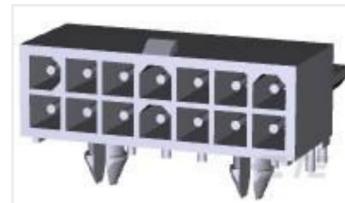
TE Part #172782-7
LOW PROFILE MINI AMP-IN



TE Part #350711-4
06P UMNL PIN HDR ASSY 94VO LF



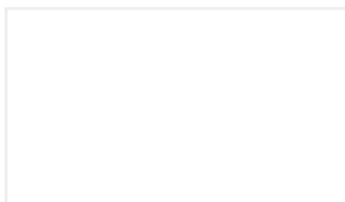
TE Part #350714-4
15P UMNL PIN HDR ASSY 94VO LF



TE Part #1-770973-1
14P MINI UMNL R/A HDR ASSY LF



TE Part #1735446-3
2MM PITCH HPI POST HEADER,
VERTICAL, 3P



TE Part #3-2172093-2
M8.MALE.PNLREAR.4POS.RA.
PCBSTND.SHLD

Documents

Product Drawings

[10P MINI UMNL HDR ASSY AU LF](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-770858-1_G.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_1-770858-1_G.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770858-1_G.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

[mini-universal-mate-n-lok-connectors](#)

English

Product Specifications

[Application Specification](#)

English

Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

Agency Approvals

[UL Report](#)

English