

WIN*SOURCE*
ELECTRONICS

THE DATASHEET OF
1-770968-0



1-770968-0 ✓ ACTIVE

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

TE Internal #: 1-770968-0

PCB Mount Header, Right Angle, Wire-to-Board, 4 Position, 4.14 mm [.162 in] Centerline, Fully Shrouded, Tin, Mini-Universal MATE-N-LOK

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

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

Number of Positions: **4**

Number of Rows: **2**

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

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Power Positions	4
Number of Columns	2
Number of Loaded Positions	4
Connector Contact Load Condition	Fully Loaded
Number of Positions	4
Number of Rows	2



PCB Mount Orientation	Right Angle
-----------------------	-------------

Electrical Characteristics

Operating Voltage	600 VAC
-------------------	---------

Body Features

Primary Product Color	White
-----------------------	-------

Contact Features

Contact Size	1mm
--------------	-----

PCB Contact Termination Area Plating Material Thickness	3.81 – 8.89 μm [150 – 350 μin]
---	---

Contact Layout	Matrix
----------------	--------

Mating Pin Diameter	1 mm[.039 in]
---------------------	---------------

Contact Underplating Material Thickness	1.27 μm [50 μin]
---	---

Contact Mating Area Plating Material Thickness	3.81 – 8.89 μm [150 – 350 μin]
--	---

PCB Contact Termination Area Plating Material Finish	Matte
--	-------

Contact Shape & Form	Round
----------------------	-------

Contact Mating Area Plating Material Finish	Matte
---	-------

Contact Underplating Material	Nickel
-------------------------------	--------

PCB Contact Termination Area Plating Material	Tin
---	-----

Contact Base Material	Brass
-----------------------	-------

Contact Mating Area Plating Material	Tin
--------------------------------------	-----

Contact Type	Pin
--------------	-----

Contact Current Rating (Max)	9.5 A
------------------------------	-------

Termination Features

Termination Post & Tail Diameter	1 mm[.039 in]
----------------------------------	---------------

Termination Post & Tail Length	3.69 mm[.145 in]
--------------------------------	------------------

Termination Method to PCB	Through Hole - Solder
---------------------------	-----------------------

Mechanical Attachment

Mating Alignment Type	Chamfered Edges
-----------------------	-----------------

Mating Retention	With
------------------	------

Panel Mount Feature	Without
---------------------	---------

PCB Mount Retention Type	Boardlock
--------------------------	-----------

Mating Retention Type	Locking Tab
-----------------------	-------------

Connector Mounting Type	Board Mount
-------------------------	-------------



Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	With

Housing Features

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

Dimensions

Connector Length	9.86 mm [.388 in]
Connector Height	11.86 mm [.467 in]
Connector Width	12.7 mm [.5 in]
PCB Thickness (Recommended)	1.57 mm [.062 in]
Row-to-Row Spacing	4.14 mm [.162 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power
---------------------	-------

Industry Standards

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

Packaging Features

Packaging Quantity	200
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

No Restricted Materials Above Threshold

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUNE 2024 (241)

Candidate List Declared Against: JUNE 2024 (241)

Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I < 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



TE Part # 794805-1
4 CIR UMNL PLUG, ROUND HOLES



TE Part # 794772-4
04P MINI UMNL SEAL, DIE CUT




TE Part # 172167-1
4 CIR UNIV M-N-L PLUG




TE Part # 794188-1
04P MINI UMNL2 PLUG HSG UL94V0


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




Connector Caps & Covers(2)



Connector Contacts(89)



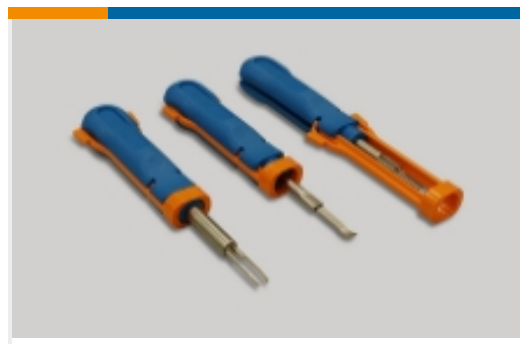
Connector Hardware(4)



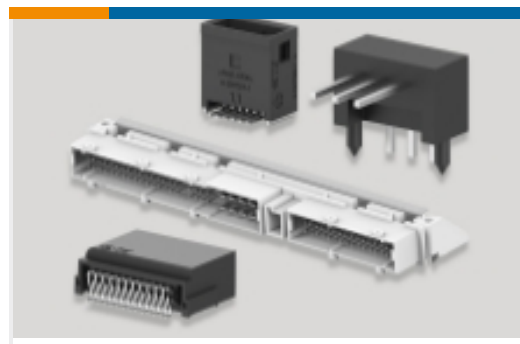
Connector Seals & Cavity Plugs(17)



Connector Strain Relief(2)



Insertion & Extraction Tools(1)

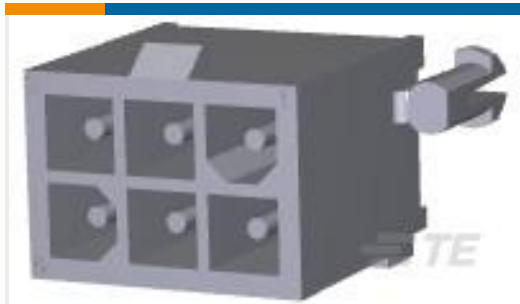


PCB Headers & Receptacles(93)



Rectangular Power Connectors(104)

Customers Also Bought



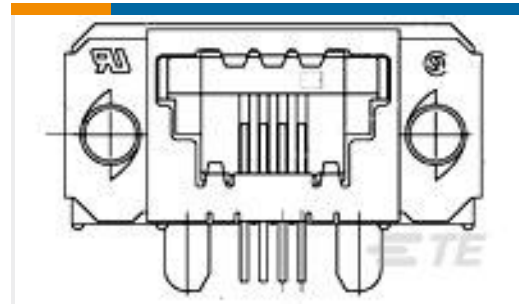
TE Part #1-770875-0
06P MINI UMNL HDR ASSY SN



TE Part #1-770876-0
09P MINI UMNL HDR ASSY SN



TE Part #6116353-4
INV MJ,1X2,PNL GRD,LED (Y/G)



TE Part #1-1761185-1
4 SDL SE GRND RCPT ASSY



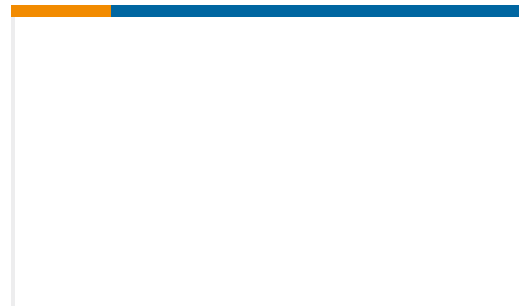
TE Part #5767110-1
MICT,RCPT,038,ASSY,.025



TE Part #2-6450831-0
MBXL R/A HDR 24S



TE Part #7-6450860-9
MBXLE VERT RCPT ,4HDP + 92S + 4HDP



TE Part #0600-00057
ANT,2.4GHz,DIPOLE

Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-770968-0_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770968-0_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-770968-0_E.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English



Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

UL

English

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

[View 1-770968-0 on WIN SOURCE](#)

[TE Connectivity Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management