770875-2 ✔ ACTIVE

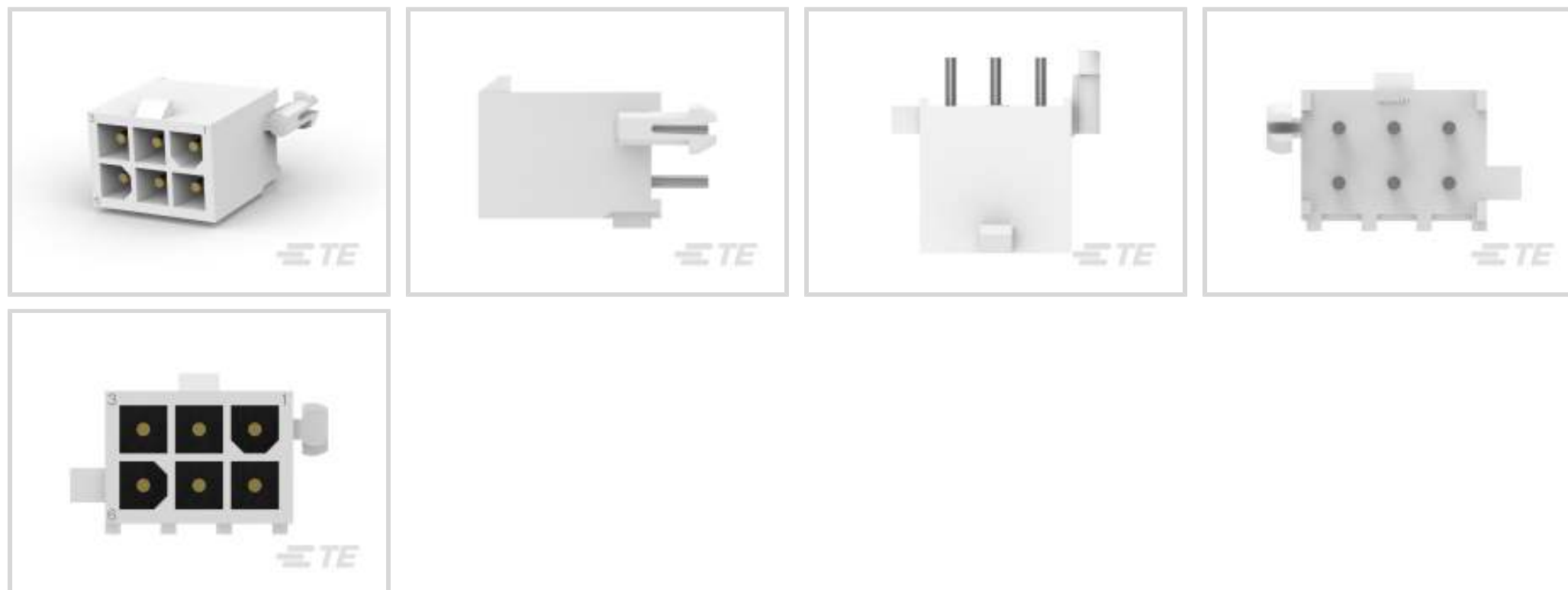## MATE-N-LOK | Mini-Universal MATE-N-LOK

TE Internal #: 770875-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [.162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

View on TE.com >

Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **6**

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

Features

Product Type Features

Header Type	Fully Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	6
PCB Mount Orientation	Vertical
Number of Power Positions	6
Number of Signal Positions	0
Number of Rows	2

Electrical Characteristics

Operating Voltage	600 VDC

770875-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [.162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

Contact Features

Multiple Contact Types	Without
Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)	9.5 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]

Termination Features

Termination Post & Tail Length	4.25 mm
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

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

Housing Features

Centerline (Pitch)	4.14 mm[.162 in]
Housing Color	White
Housing Material	Nylon

Dimensions

Connector Height	13.49 mm
Product Width	9.83 mm
Product Length	13.97 mm
Row-to-Row Spacing	4.14 mm[.162 in]

Usage Conditions

770875-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [. 162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

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

Operation/Application

Circuit Application	Power

Industry Standards

CSA Rating	Certified, LR 7189
UL Rating	Recognized
Agency/Standard	CSA, UL
Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

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	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2023 (233) SVHC > Threshold: Pb (13% in Component Part) **Article Safe Usage Statements:** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not lead free process capable

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

770875-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [.162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

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 # 794895-1
6 CIR MINI UMNL RND WIRE HOLES

TE Part # 794772-6
06P MINI UMNL SEAL,DIE CUT

TE Part # 794190-1
06P MINI UMNL2 PLUG HSG UL94V0

TE Part # 172168-1
6 CIR UNIV M-N-L PLUG

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

Connector Backshells(2)

Connector Contacts(8)

Connector Strain Relief(2)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(1)

Power Contacts(84)

Rectangular Connector Keying Plugs(2)

Rectangular Connector Locking(2)

Rectangular Connector Seals(17)

Rectangular Power Connectors(243)

Customers Also Bought

770875-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [.
162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

TE Part #1-776275-2
AMPSEAL PCB Headers

TE Part #643406-1
05P UMNL PIN HDR ASSY POL 94VO

TE Part #643410-1
08P UMNL PIN HDR ASSY POL 94VO

TE Part #643408-1
06P UMNL PIN HDR ASSY POL 94VO

TE Part #62650-1
250 FASTON TAB TPBR

TE Part #3-2106003-2
Connector, SMT-IDC, 2 POS, 24 AWG

TE Part #8-1625999-2
HSC100 2K5 5%

Documents

Product Drawings

06P MINI UMNL HDR ASSY VO AU

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_770875-2_H.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_770875-2_H.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_770875-2_H.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

Product Environmental Compliance

MD_770875-2_03272018123_dmtec

770875-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [.162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

English

MD_770875-2_03272018123_dmtec

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Instruction Sheet (U.S.)

English

Agency Approvals

Agency Approval Document

English