



MATE-N-LOK | Micro MATE-N-LOK

TE Internal #: 2029104-3

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 3 Position, 3 mm [.118 in] Centerline, Printed Circuit Board, UL 94V-0, Micro MATE-N-LOK

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **3**

Centerline (Pitch): **3 mm [.118 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 | 3 |
| PCB Mount Orientation | Right Angle |
| Number of Power Positions | 3 |
| Number of Signal Positions | 0 |
| Number of Rows | 1 |

Electrical Characteristics

| | |
|-------------------|---------|
| Operating Voltage | 250 VDC |
|-------------------|---------|



Contact Features

| | |
|--|--|
| Contact Layout | Inline |
| Multiple Contact Types | Without |
| Contact Current Rating (Max) | 5 A |
| Contact Retention Within Housing | Without |
| Contact Type | Pin |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | 2.54 μm [100 μin] |
| Contact Termination Area Plating Thickness | 2.54 μm [100 μin] |

Termination Features

| | |
|---|-----------------|
| Termination Post & Tail Length | 1.4 mm[.055 in] |
| Termination Method to Printed Circuit Board | Surface Mount |

Mechanical Attachment

| | |
|--------------------------|----------------|
| Strain Relief | Without |
| Mating Alignment Type | Polarization |
| Mating Alignment | With |
| Panel Mount Feature | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Hold-Down Post |
| Connector Mounting Type | Board Mount |
| Mating Retention | With |
| Mating Retention Type | Locking Tab |

Housing Features

| | |
|--------------------|---------------|
| Centerline (Pitch) | 3 mm[.118 in] |
| Housing Color | Natural |
| Housing Material | Nylon |

Dimensions

| | |
|-----------------------------|-----------------|
| Insulation Diameter (Max) | 1.52 mm[.06 in] |
| PCB Thickness (Recommended) | .06 mm[1.57 in] |

Usage Conditions

| | |
|-----------------------------|--|
| Operating Temperature Range | -40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$] |
|-----------------------------|--|



Operation/Application

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

Industry Standards

| | |
|------------------------|-------------------------------|
| CSA Rating | Certified |
| UL Flammability Rating | UL 94V-0 |
| Glow Wire Rating | Standard Part - Not Glow Wire |
| Agency/Standard Number | E28476 |
| Agency/Standard | CSA, UL |
| UL Rating | Recognized |
| CSA File Number | LR7189 |
| VDE Tested | Yes |

Packaging Features

| | |
|--------------------|------------------|
| Packaging Method | Box & Tray, Tray |
| Packaging Quantity | 215 |

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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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 | Reflow solder capable to 260°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>

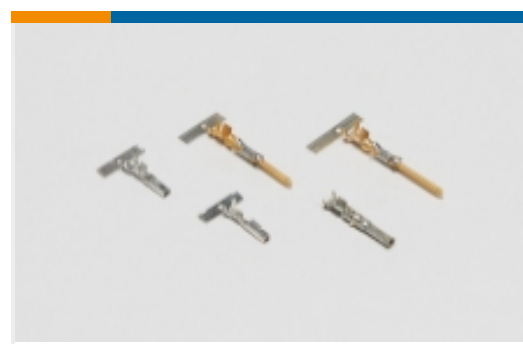
Compatible Parts

| | | | |
|--|--|---|---|
|  <p>TE Part # 2029030-4 4P MICRO MNL HDR ASSY SR SIDE L</p> |  <p>TE Part # 1445022-3 MICRO MNL RFCEPT HSG SINGLE R</p> |  <p>TE Part # 2-1445057-4 MICRO MNL HDR ASSY SINGLE ROW</p> |  <p>TE Part # 2-1445057-3 MICRO MNL HDR ASSY SINGLE ROW</p> |
|  <p>TE Part # 2029030-2 2P MICRO MNL HDR ASSY SR SIDE L</p> |  <p>TE Part # 2-1445057-7 MICRO MNL HDR ASSY SINGLE ROW</p> |  <p>TE Part # 2-1445057-8 MICRO MNL HDR ASSY SINGLE ROW</p> |  <p>TE Part # 2008571-3 3 POS MICRO MNL, TOP LATCH, BL</p> |
|  <p>TE Part # 2029030-3 3P MICRO MNL HDR ASSY SR SIDE L</p> |  <p>TE Part # 2029047-3 3P MICRO MNL RCPT HSG SR SIDE</p> |  <p>TE Part # 2029104-2 2P MICRO MNL HDR ASSY SR SIDE N</p> |  <p>TE Part # 2029102-3 3P MICRO MNL RCPT SR SIDE WHT</p> |
|  <p>TE Part # 2029104-4 4P MICRO MNL HDR ASSY SR SIDE N</p> |  <p>TE Part # 2-1445056-3 MICRO MNL HDR ASSY SINGLE ROW</p> |  <p>TE Part # 2315752-3 3P, MICRO MNL RCPT HSG SINGLE ROW, V0 GW</p> | |

Also in the Series | **Micro MATE-N-LOK**



Insertion & Extraction Tools(1)



Power Contacts(26)



Rectangular Power Connectors(712)

Documents

Product Drawings

[3P MICRO MNL HDR ASY SR SIDE N](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_2029104-3_C.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2029104-3_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2029104-3_C.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

[MICRO MATE-N-LOK CONNECTOR SYSTEM](#)

English

[1773458-4_MICRO_MATE_N_LOK_CONNECTOR_SYSTEM_ORG](#)

English

[LOW_PROFILE_MICRO_M-N-L](#)

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Product Specifications

[Application Specification](#)

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Product Environmental Compliance

[Product Compliance](#)

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Product Compliance

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