# 2-1445085-3 ✔ ACTIVE

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

TE Internal #: 2-1445085-3

PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 3 mm [.118 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Power, Micro MATE-N-LOK

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles







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

Number of Positions: **3**

Number of Rows: **1**

Centerline (Pitch): **3 mm [ .118 in ]**

PCB Mount Orientation: **Vertical**

## Features

### Product Type Features

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

### Configuration Features

| | |
|---|---|
| Number of Power Positions | 3 |
| Number of Columns | 3 |
| Number of Loaded Positions | 3 |
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions | 3 |
| Number of Rows | 1 |

| | |
|---|---|
| PCB Mount Orientation | Vertical |

## Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 250 VAC |

## Body Features

| | |
|---|---|
| PCB Retention Feature Material | Phosphor Bronze |
| PCB Retention Feature Plating Material | Tin |
| Primary Product Color | Black |

## Contact Features

| | |
|---|---|
| Contact Mating Area Length | 4.15 mm[.163 in] |
| Contact Size | .64mm |
| Mating Square Post Dimension | .64 mm[.025 in] |
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 7.62 µm[100 – 300 µin] |
| Contact Layout | Inline |
| Contact Underplating Material Thickness | 1.27 – 2.54 µm[50 – 100 µin] |
| Contact Mating Area Plating Material Thickness | .38 µm[15 µin] |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Shape & Form | Square |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Base Material | Brass |
| Contact Mating Area Plating Material | Gold |
| Contact Type | Tab |
| Contact Current Rating (Max) | 5 A |

## Termination Features

| | |
|---|---|
| Square Termination Post & Tail Dimension | .64 mm[.025 in] |
| Termination Post & Tail Length | 3.18 mm[.125 in] |
| Termination Method to PCB | Through Hole - Solder |

## Mechanical Attachment

| | |
|---|---|
| Mating Alignment Type | Polarization |
| Mating Retention | With |
| Panel Mount Feature | Without |
| PCB Mount Retention Type | Hold-Down |

| | |
|---|---|
| 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 | Top |
| Housing Material | High Temperature Nylon |
| Centerline (Pitch) | 3 mm[.118 in] |

### Dimensions

| | |
|---|---|
| Connector Length | 13.14 mm[.517 in] |
| Connector Height | 9.24 mm[.364 in] |
| Connector Width | 3.86 mm[.152 in] |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |

### Usage Conditions

| | |
|---|---|
| Operating Temperature (Max) | 105 °C[221 °F] |
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |

### Operation/Application

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

### Industry Standards

| | |
|---|---|
| UL Rating | Recognized |
| Glow Wire Rating | GWT 750°C (Without Flame) |
| Compatible With Agency/Standards Products | CNR, USR |
| Compatible With Approved Standards Products | UL E28476 |
| UL Flammability Rating | UL 94V-0 |

### Packaging Features

| | |
|---|---|
| Packaging Quantity | 266 |
| Packaging Method | Tray |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

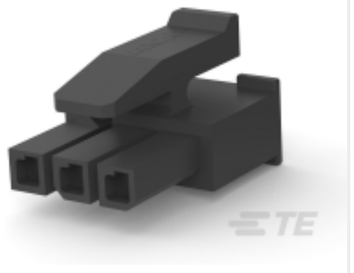
| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |

| | |
|---|---|
| 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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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 |

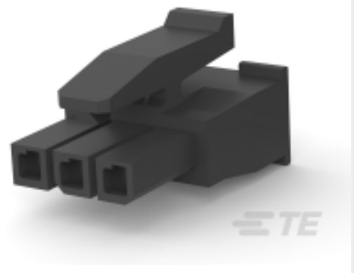
Product Compliance Disclaimer

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

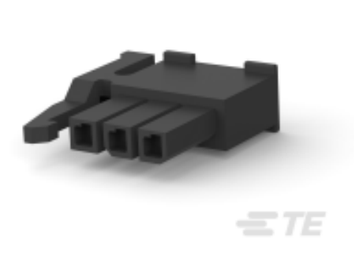
## Compatible Parts



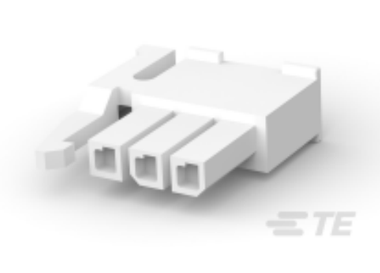
TE Part # 1445022-3
MICRO MNL RFECEPT HSG SINGLE R



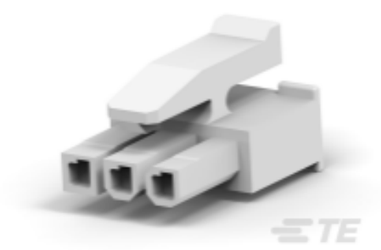
TE Part # 2008571-3
3 POS MICRO MNL, TOP LATCH, BL



TE Part # 2029047-3
3P MICRO MNL RCPT HSG SR SIDE



TE Part # 2029102-3
3P MICRO MNL RCPT SR SIDE WHT



TE Part # 2315752-3
3P, MICRO MNL RCPT HSG SINGLE ROW, V0 GW

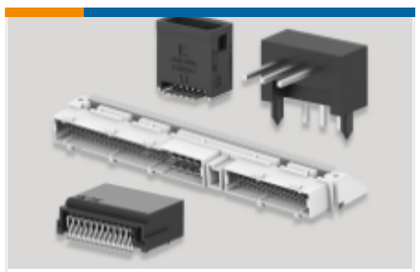
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Connector Contacts(27)



Insertion & Extraction Tools(1)



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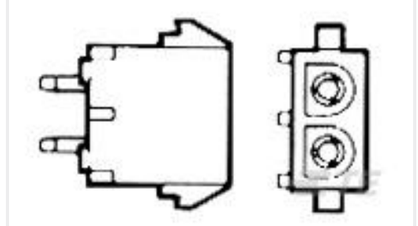


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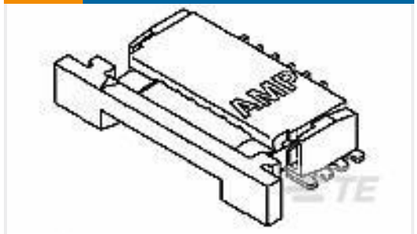
## Customers Also Bought




TE Part #2-1622820-4
3520 220K 5%



TE Part #350789-3
03P UMNL PIN HDR ASSY 94VO




TE Part #84952-9
1MM FPC HORZ.BTTM CONT.ASS.9P



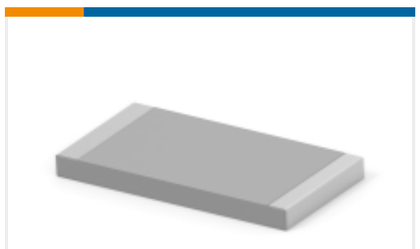
TE Part #2-1445094-2
MICRO MNL HDR ASSY S/ROW AU LF



TE Part #3-794681-8
08P MICRO MNL ASSY,VRT,THRU,LF



TE Part #4-2176093-8
RP 2A 0.25W 30K1 0.1% 25PPM 1K RL



TE Part #5-2176331-9
CRGP 2512 680K 1%

## Documents

### Product Drawings

micro mnl hdr assy s/row au lf

English

### CAD Files

Customer View Model

ENG_CVM_CVM_2-1445085-3_B.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-1445085-3_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-1445085-3_B.3d_stp.zip

English

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## Datasheets & Catalog Pages

### SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

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### MICRO MATE-N-LOK CONNECTOR SYSTEM

English

## Product Specifications

### Application Specification

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## TE Connectivity:

650075-000 1969656-1 2005330-1 2310537-1 3631B101LL ROX05SJ18R 3430B2F51RTDF MPT100C18RF 1903112-2 2377783-2 RH73H2A40MKTN 1393431-1 175977-2 3-1393225-0 SMW73R0JT SBCHE154R7K 1-794222-0 2-292161-3 2380312-2 2834055-1 CRGCQ2010J3K3 SBCHE64R7K 141991-2 917696-1 936348-1 CPF0402B37K4E1 TE50BR39J 1-962915-1 U5254-000005-030PA 1743455-2