

2-1445096-3 ✓ ACTIVE

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

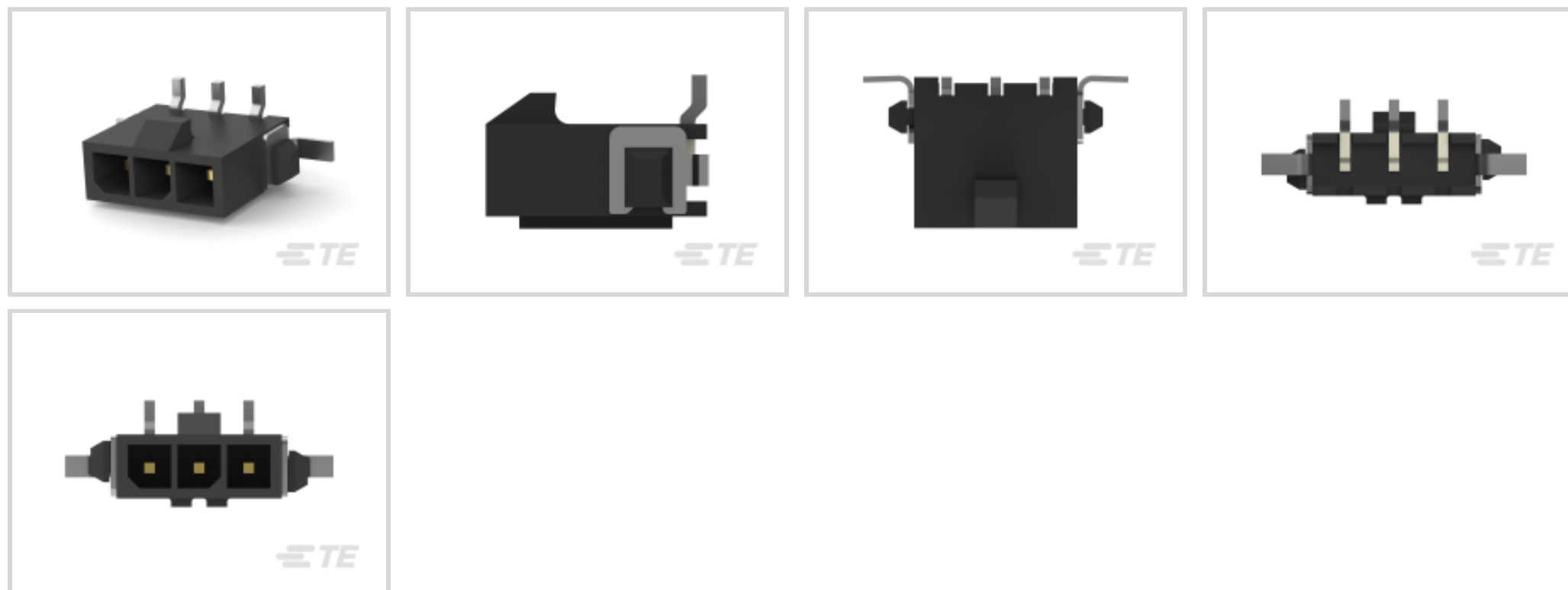
TE Internal #: 2-1445096-3

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

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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
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### Electrical Characteristics

Operating Voltage	250 VAC
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### 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 $\mu$ m[100 – 300 $\mu$ in]
Contact Layout	Inline
Contact Underplating Material Thickness	1.27 – 2.54 $\mu$ m[50 – 100 $\mu$ in]
Contact Mating Area Plating Material Thickness	.76 $\mu$ m[30 $\mu$ in]
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 Method to PCB	Surface Mount

### 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
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Mating Alignment	With
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PCB Mount Alignment	Without
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PCB Mount Retention	With
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### Housing Features

Mating Entry Location	Top
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Housing Material	High Temperature Nylon
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Centerline (Pitch)	3 mm [.118 in]
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### Dimensions

Connector Length	13 mm [.512 in]
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Connector Height	9.24 mm [.364 in]
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Connector Width	3.86 mm [.152 in]
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PCB Thickness (Recommended)	1.57 mm [.062 in]
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### Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
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Operating Temperature Range	-40 – 105 °C [-40 – 221 °F]
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### Operation/Application

Circuit Application	Power
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### Industry Standards

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

Packaging Quantity	210
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Packaging Method	Tape
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### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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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	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

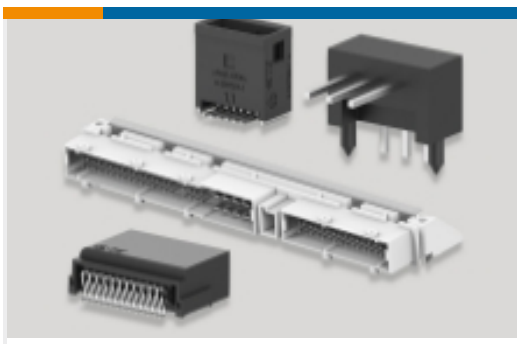
## Also in the Series | Micro MATE-N-LOK



Connector Contacts(27)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(371)

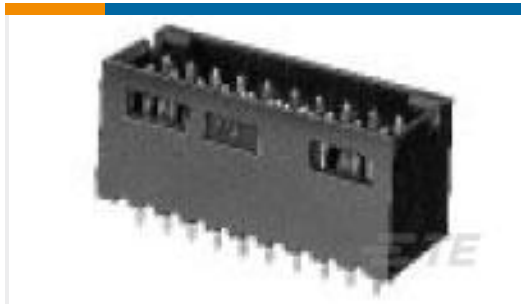


Rectangular Power Connectors(98)

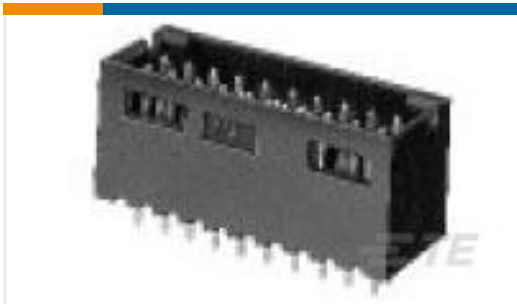
### Customers Also Bought



TE Part #5-1622820-3  
3520 560R 5%



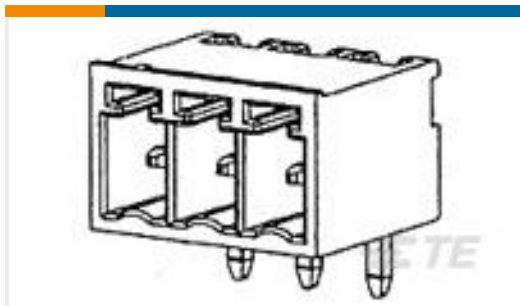
TE Part #5-102618-5  
14 MODII HDR DRST SHRD .100CL



TE Part #5-102618-2  
08 MODII HDR DRST SHRD .100CL



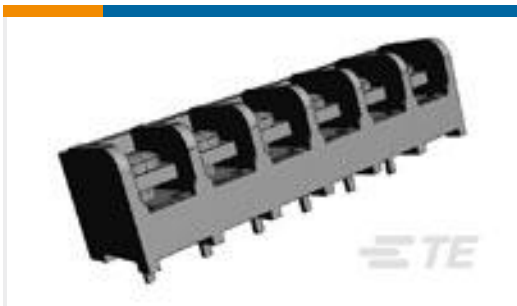
TE Part #1705549-1  
Invertible Modular Jack 8P shielded



TE Part #1-284513-0  
10 POS TERMI-BLOK HDR 900 POL.



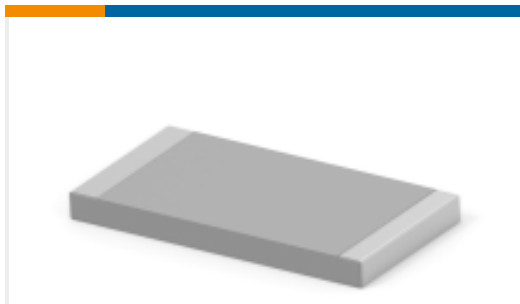
TE Part #5749268-1  
Mini DIN, 8 pos, R/A, Shield



TE Part #9-1437652-5  
6PCV-06-006=6PCV ASSEMBLY



TE Part #2-2176349-7  
CRGCO 2512 1K5 1%



TE Part #1-2176331-4  
CRGP 2512 120R 1%

### Documents

#### Product Drawings

MICRO MNL HDR ASSY SINGLE ROW

English

#### CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-1445096-3\_E1.2d\_dxf.zip



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2-1445096-3\\_E1.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2-1445096-3\\_E1.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

[SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

English

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

English

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### Product Specifications

[Application Specification](#)

English