



## RECTANGULAR POWER CONNECTORS



TE CONNECTIVITY (TE)

### 02P MINI UMNL ASSY VO SNAU LF

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

1-770166-1

TE Internal Number: 1-770166-1

Always EU RoHS/ELV Compliant

Product Type **Header**

Housing Type **Plug**

Connector System **Wire-to-Board**

Applies To **Printed Circuit Board**

Contact Current Rating (A) **9.5**

Active

PRODUCT DRAWING  
English

3D PDF

#### Product Drawings

[HEADER ASSEMBLY, 2 CKT, MINI UNIVERSAL MATE-N-LOK](#)

PDF  
English

#### CAD Files

[3D PDF](#)

PDF  
English

[Customer View Model](#)

3D\_IGS.ZIP  
English

[Customer View Model](#)

3D\_STP.ZIP  
English

[Customer View Model](#)

2D\_DXF.ZIP  
English

#### Catalog Pages/Data Sheets

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

PDF  
English

[1-1773458-0\\_MINI\\_UNIVERSAL\\_MATE\\_N\\_LOK\\_CONNECTOR\\_SYSTEM\\_ORG](#)

PDF  
English

#### Product Specifications

Application Specification

[Mini-Universal MATE-N-LOK Connectors](#)

PDF  
English

#### Product Environmental Compliance

TE Material Declaration

[MD\\_1-770166-1\\_02262016926\\_dmtec](#)

PDF  
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

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Product Type Features	Product Type	<b>Header</b>
	Housing Type	<b>Plug</b>
	Contact Type	<b>Pin</b>

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Configuration Features	Number of Positions	<b>2</b>
	Centerline	<b>4.14 mm [ .163 in ]</b>
	PCB Mounting Orientation	<b>Vertical</b>
	Number of Rows	<b>1</b>
	Multiple Contact Types	<b>Without</b>
	Contact Layout	<b>Inline</b>

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Electrical Characteristics	Contact Current Rating (A)	<b>9.5</b>
	Operating Voltage (VAC)	<b>600</b>
	Operating Voltage (VDC)	<b>600</b>

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Contact Features	Contact Retention	<b>Without</b>
	Contact Termination Area Plating Material	<b>Tin</b>
	Contact Mating Area Plating Material	<b>Gold</b>
	Contact Termination Area Plating Thickness	<b>3.81 µm [ 150 µin ]</b>

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Termination Features	Wire/Cable Size (AWG)	<b>30 – 16</b>
	Termination Method to Wire/Cable	<b>Solder</b>
	Termination Method to PC Board	<b>Through Hole - Solder</b>
	Termination Post/Tail Length	<b>3.69 mm [ .145 in ]</b>

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Mechanical Attachment	Mating Alignment	<b>With</b>
	Mating Retention	<b>With</b>
	PCB Mount Retention	<b>With</b>
	PCB Mount Retention Type	<b>Boardlocks</b>
	Mating Alignment Type	<b>Chamfered Edges</b>
	PCB Mount Alignment	<b>Without</b>
	Assembly Integration Feature	<b>Without</b>
	Mating Retention Type	<b>Locking Tab</b>
	Panel Mount Retention	<b>Without</b>

Strain Relief

**Without**

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Housing Features

UL Flammability Rating

**UL 94V-0**

Housing Color

**White**

Housing Material

**Nylon**

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Dimensions

Insulation Diameter (Max)

**3.2 mm [ .126 in ]**

PCB Thickness (Recommended)

**1.57 mm [ .062 in ]**

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Usage Conditions

Sealed Condition

**Not Sealed**

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Operation/Application

Connector System

**Wire-to-Board**

Applies To

**Printed Circuit Board**

Operating Temperature

**-55 – 105 °C [ -67 – 221 °F ]**

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Industry Standards

Glow Wire Rating

**Standard Part - Not Glow Wire**

VDE Tested

**Yes**

CSA Rating

**Certified**

Agency/Standard Number

**E28476**

UL Rating

**Recognized**

CSA File Number

**LR7189**

Agency/Standard

**CSA, UL**

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Packaging Features

Packaging Method

**Bag**

Packaging Quantity

**200**

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Other

For Use With

**Plug Housing**

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Product Compliance

[Statement of Compliance](#)  
PDF

[VIEW ALL PRODUCT COMPLIANCE](#)

## CUSTOMERS ALSO BOUGHT

RECTANGULAR POWER  
CONNECTORS

WIRE-TO-BOARD HEADERS &  
RECEPTACLES

WIRE-TO-BOARD HEADERS &  
RECEPTACLES

RJ45 CONNECTORS

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Products - 2 Results

View All

Compare 0/10


Relation Type ▼

RELATIONSHIP

**Mating Products**

Used to identify Mating Parts

See All Mating Products


	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Rectangular Power Connectors MATE-N-LOK I Mini-Universal MATE-N-LOK</p> <p><b>2 CIR UNIV M-N-L PLUG NATL - 172165-1</b></p> <p>TE INTERNAL NUMBER: 172165-1 ALIAS ID: 2-42939-6011</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Product Type <b>Housing</b></p> <p>Housing Type <b>Plug</b></p> <p>Connector System <b>Wire-to-Wire</b></p> <p>Applies To <b>Wire/Cable</b></p> <p>Number of Positions <b>2</b></p>	<input checked="" type="checkbox"/>
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RELATIONSHIP

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	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Rectangular Power Connectors MATE-N-LOK I Mini-Universal MATE-N-LOK 2</p> <p><b>02P MINI UMNL2 PLUG HSG UL94V0 - 794184-1</b></p> <p>TE INTERNAL NUMBER: 794184-1</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Product Type <b>Housing</b></p> <p>Housing Type <b>Plug</b></p> <p>Connector System <b>Wire-to-Wire</b></p> <p>Applies To <b>Wire/Cable</b></p> <p>Number of Positions <b>2</b></p>	<input checked="" type="checkbox"/>
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