



RECTANGULAR POWER CONNECTORS



TE CONNECTIVITY (TE)

12P MINI UMNL R/A HDR ASSY LF

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

1-770972-0

TE Internal Number: 1-770972-0

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, RIGHT ANGLE, WITH SHORT PEG, 12 CIRCUIT, MINI UNIVERSAL MATE-N-LOK\(TM\)](#)

PDF
English

CAD Files

[3D PDF](#)

PDF
English

[Customer View Model](#)

2D_DXF.ZIP
English

[Customer View Model](#)

3D_IGS.ZIP
English

[Customer View Model](#)

3D_STP.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_QRG](#)

PDF
English

Product Specifications

Application Specification

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

PDF
English

Product Environmental Compliance

TE Material Declaration

[MD_1-770972-0_02262016824_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.

Product Type Features	Product Type	Header
	Housing Type	Plug
	Contact Type	Pin

Configuration Features	Number of Positions	12
	Centerline	4.14 mm [.163 in]
	PCB Mounting Orientation	Right Angle
	Number of Rows	2
	Row-to-Row Spacing	4.14 mm [.163 in]
	Multiple Contact Types	Without

Electrical Characteristics	Contact Current Rating (A)	9.5
	Operating Voltage (VAC)	600
	Operating Voltage (VDC)	600

Contact Features	Contact Retention	Without
	Contact Termination Area Plating Material	Tin
	Contact Termination Area Plating Thickness	3.81 μm [150 μin]




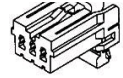








Termination Features	Termination Method to Wire/Cable	Solder
	Termination Method to PC Board	Through Hole - Solder
	Termination Post/Tail Length	3.69 mm [.145 in]

Mechanical Attachment	Mating Alignment	With
	Mating Retention	With
	PCB Mount Retention	With
	PCB Mount Retention Type	Boardlocks
	Mating Alignment Type	Chamfered Edges
	PCB Mount Alignment	Without
	Assembly Integration Feature	Without
	Mating Retention Type	Locking Tab
	Panel Mount Retention	Without
	Strain Relief	Without

Housing Features	UL Flammability Rating	UL 94V-0
	Housing Color	White
	Housing Material	Nylon
Dimensions	Width (mm)	12.7
	Height (mm)	9.8
	PCB Thickness (Recommended)	1.57 mm [.062 in]
	Length (mm)	26.42
	Insulation Diameter (Max) (mm)	3.2
Usage Conditions	Sealed Condition	Not Sealed
Operation/Application	Connector System	Wire-to-Board
	Applies To	Printed Circuit Board
	Operating Temperature	-55 – 105 °C [-67 – 221 °F]
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
Packaging Features	Packaging Method	Bag
	Packaging Quantity	200
Other	For Use With	Plug Housing
Product Compliance	Statement of Compliance PDF VIEW ALL PRODUCT COMPLIANCE	

CUSTOMERS ALSO BOUGHT


CARD EDGE POWER CONNECTORS 	RECTANGULAR POWER CONNECTORS 	HIGH FREQUENCY & RF INDUCTORS 	AUTOMOTIVE, TRUCK, BUS, & OFF-ROAD HOUSINGS 
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 <p>CONN SEC II 15 POS 100C/L R/A 5650118-1</p>	 <p>12P MINI UMNL PLUG HSG 770581-1</p>	 <p>3650 1008 0.47uH 5% 2K RL 36502CR47JTDG</p>	 <p>070 MLC PLUG 6P 174923-1</p>
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Relation Type 


RELATIONSHIP

Mating Products


Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS 



Connectors - Rectangular Power Connectors
MATE-N-LOK I Mini-Universal MATE-N-LOK 2
**12P MINI UMNL2 PLUG
HSG DBLROW - 794198-1**
TE INTERNAL NUMBER: 794198-1

 Active

Always EU RoHS/ELV Compliant

Product Type **Housing**

Housing Type **Plug**

Connector System **Wire-to-Wire**

Applies To **Wire/Cable**

Number of Positions **12**


RELATIONSHIP

Mating Products

Used to identify Mating Parts

[See All Mating Products](#)

PRODUCT - MATING PRODUCTS 



Connectors - Rectangular Power Connectors
MATE-N-LOK I Mini-Universal MATE-N-LOK
**12P MINI UMNL PLUG
HSG - 770581-1**
TE INTERNAL NUMBER: 770581-1
ALIAS ID: 0-0770581-1

 Active

Always EU RoHS/ELV Compliant

Product Type **Housing**

Housing Type **Plug**

Connector System **Wire-to-Wire**

Applies To **Wire/Cable**

Number of Positions **12**