CONNECTORS

RECTANGULAR POWER CONNECTORS

Active

PRODUCT DRAWING
English

3D PDF

TE CONNECTIVITY (TE)

09P MINI-UMNL ASSY V0 SNNI

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

1-770182-0
TE Internal Number: 1-770182-0

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**

Product Drawings

HEADER ASSEMBLY, 9 CKT, MINI UNIVERSAL MATE-N-LOK
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_1-770182-0_02262016928_dmtec
PDF
English

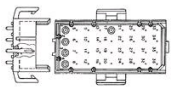
Please review product documents or contact us for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

Product Type Features	Product Type	**Header**
	Housing Type	**Plug**
	Contact Type	**Pin**
Configuration Features	Number of Positions	**9**
	Centerline	**4.14 mm [.163 in]**
	PCB Mounting Orientation	**Vertical**
	Number of Rows	**3**
	Row-to-Row Spacing	**4.14 mm [.163 in]**
	Multiple Contact Types	**Without**
	Contact Layout	**Matrix**
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	Wire/Cable Size (AWG)	**30 – 16**
	Wire/Cable Size (mm^2)	**.05 – 1.308**
	Wire/Cable Size (CMA)	**100.5 – 2583**
	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**
	Boardlock Material	**Nylon**
Dimensions	Width (mm)	**13.97**
	Height (mm)	**13.49**
	PCB Thickness (Recommended)	**1.57 mm [.062 in]**
	Length (mm)	**13.97**
	Insulation Diameter (Max) (mm)	**3.2**
Usage Conditions	Sealed Condition	**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

RECTANGULAR POWER CONNECTORS



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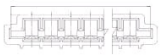

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Relation Type

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

9 CIR UNIV M-N-L PLUG - 172169-1

TE INTERNAL NUMBER: 172169-1

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Product Type **Housing**
Housing Type **Plug**
Connector System **Wire-to-Wire**
Applies To **Wire/Cable**
Number of Positions **9**

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

09P MINI UMNL2 PLUG HSG UL94V0 - 794194-1

TE INTERNAL NUMBER: 794194-1

✔ Active

Always EU RoHS/ELV Compliant

Product Type **Housing**
Housing Type **Plug**
Connector System **Wire-to-Wire**
Applies To **Wire/Cable**
Number of Positions **9**