



Conductive Elastomer Technical Specification 11-9 Series

Version TDS.11-9.V.B.0

Description

JONES-ELM 11-9 series Ni/Al Conductive Elastomer is made of silicone with Nickel-plated Aluminum conductive filler. It has excellent shielding effectiveness over wide frequency band (300 MHz-20 GHz). Because of the Ni-plated Al conductive filler under special formulation, JONES-ELM 11-9 is cost-effective and performs better corrosion resistance than most conductive elastomer in slat mist environment, such as Ni/C. It is widely used in commercial electronics application, such as outdoor base station.



Benefits

- Better corrosion resistance
- Excellent shielding effectiveness
- Excellent electrical stability
- Excellent mechanical properties
- Cost effective

Typical Properties

Properties		11-9 Series	Test Method
Electrical	Volume Resistivity (ohm-cm)	≤0.15	MIL-DTL-83528
Electrical Stability	Heat Aging (ohm-cm) (125°C*1000h)	≤0.2	MIL-DTL-83528
Physical	Elastomer type	Silicon rubber	-
	Filler material	Ni/Al	-
	Hardness (Shore A)	68±10	ASTM D2240
	Tensile Strength (MPa)	≥1.03	ASTM D412
	Elongation (%)	≥100	ASTM D412
	Tear Strength(kN/m)	≥7	ASTM D624
	Compression Set (%)	≤30	ASTM D395
Shielding Effectiveness	Average shielding @(0.3-10)GHz	100dB	Jones INS 04/2

Storage

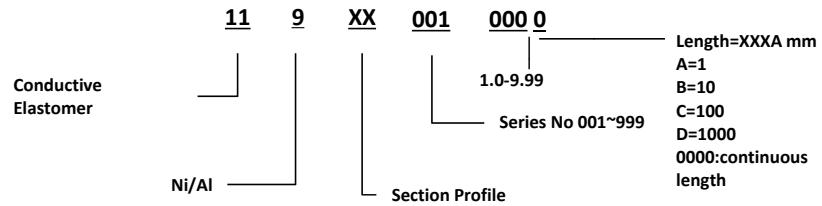
Sealed with drier and keep away from light

RoHS/Reach information

Jones 11-9s fulfills the requirements set by the EU Directive 2002/95/EC (RoHS) and Reach

Ordering information

Use this part number system when ordering JONES Conductive Elastomer.



Disclaimers

- The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the issuing date of this TDS. When using our products, no matter what type of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this TDS are subject to change without prior notice.
- Do not use the products beyond the specifications described in this TDS. This TDS explains the typical performance of the products as individual component. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
- The product provided in this TDS compliance with HSF.

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