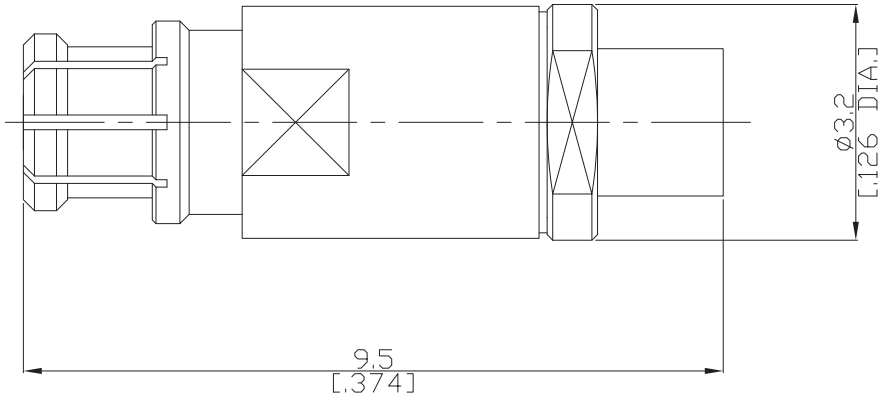
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMPM Jack (Female) Snap-On Connector Solder Attachment for EF047, DC-26.5 GHz VSWR 1.25, 26.5-40 GHz VSWR 1.40

SMPM2E50-EF047A / 99



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

According to	MIL-PRF-31031;MIL-STD-348A/328-2

Electrical Data

Impedance	50 Ω	
Frequency	DC to 40 GHz	
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB) DC to 26.5 GHz	≤ 1.40 (≥ 15.56 dB) 26.5 to 40 GHz
Insertion Loss	≤ 0.1 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 6.0 mΩ	
Outer Contact Resistance	≤ 2.0 mΩ	
Working Voltage (at sea level)	325 V rms	

-VSWR in application depends decisive on cable assembly process-

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Insulator	PTFE	

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Mechanical Data

Coupling mechanisms	Snap-on	
Mating Cycles	Mating with Smooth Bore	≥ 500
	Mating with Full Detent	≥ 100
Center Contact Captivation: axial	≥ 7 N	
Engagement Force	Smooth Bore	11 N typical
	Full Detent	19 N typical
Disengagement force	Smooth Bore	7 N typical
	Full Detent	29 N typical

Environmental Data

Temperature Range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. A
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Suitable Cables

RSR047, RSF047, RSF047-FEP, RSF047-PVC,EF047

Packing

Single or 100

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