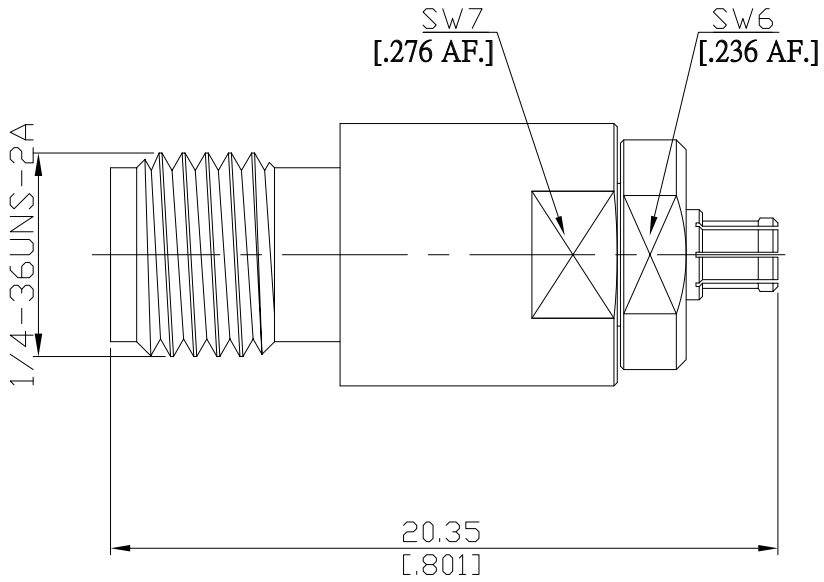
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA jack (female) / SMPM jack (female)
Adapter DC-18GHz VSWR1.35

AD-A2PM25A / 9X-99



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

Interface

	SMA Side	SMPM Side
According to	IEC 60169-15; MIL-STD-348A/310	MIL-STD-348B/328

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.35 (≥ 16.54 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ, SMA Side	N/A, SMPM Side
Outer Contact Resistance	≤ 2.0 mΩ, SMA Side	N/A, SMPM Side
Test Voltage (at sea level)	500 V rms	
Working Voltage (at sea level)	250 V rms	

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Piece Parts (SMPM)	**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	PEI	

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Mechanical Data

	SMA Side	SMPM Side
Coupling mechanisms	Screw-lock	Snap-on
Mating Cycles	≥ 500	if mated with Smooth bore or Catcher's Mitt: ≥ 1000 if mated with Limited detent: ≥ 500 if mated with Full detent: ≥ 100
Coupling Nut Retention	N/A	N/A
Center Contact Captivation: axial	≥ 28 N	≥ 7 N
Weight	N/A	
Coupling Test Torque	1.7 Nm max.	N/A
Recommended Torque	0.9 Nm	N/A

Environmental Data

Temperature Range	-55°C to +165°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Conditon B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100

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