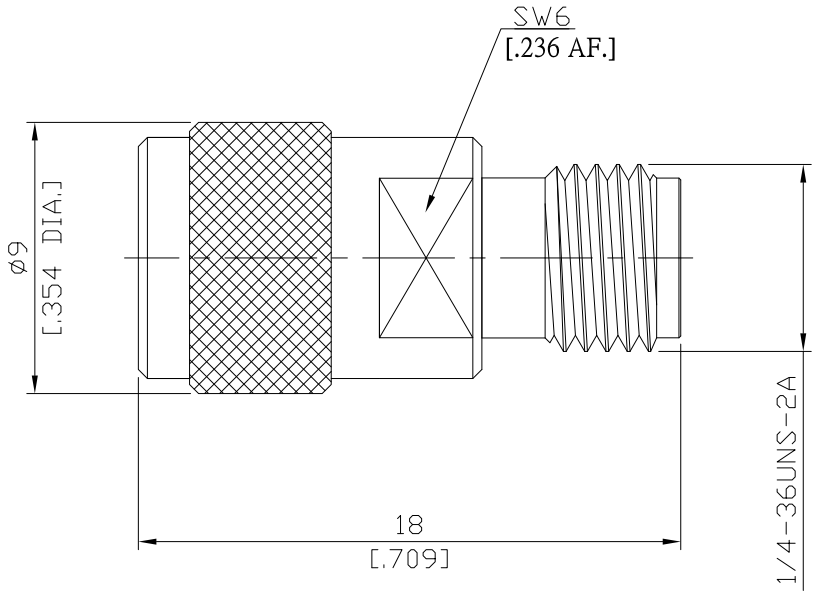
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

SMA Snap-on plug (male) / SMA jack (female)
Straight Adaptor DC-18 GHz VSWR 1.15

AD-AQ1A25A / 91X-9X



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

Interface

According to	IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23 dB)
Insertion loss	≤ 0.05 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 3 mΩ
Test voltage	1000 V rms
Working voltage	350 V rms

Material And Plating

Piece Parts (SMA Snap-On)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (SMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Stainless Steel	Passivated
Insulator	PTFE	

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Mechanical Data

	SMA Snap-On male	SMA female
Coupling mechanisms	Snap-lock	Screw-lock
Mating cycles	≥ 500	≥ 500
Center contact captivation	≥ 27 N	≥ 27 N

Environmental Data

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Singleor 100

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