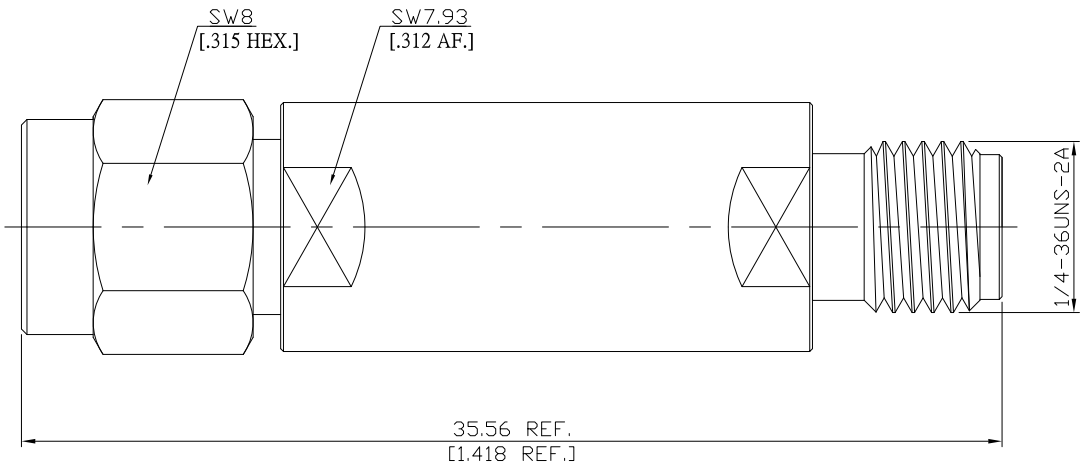
ROSNOL RF/Microwave Interconnect

Technical Data Sheet

Impedance Matching Pads plug/jack
SMA 50 plug (male) / SMA 75 jack (female)

MP-A15A27A-1G / 9XX-9X



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

Interface

According to	IEC 61169-15; MIL-STD-348A/310

Electrical Data

Impedance		SMA 50 Ω Plug / SMA 75 Ω Jack
Interface Frequency Max		DC to 1 GHz
Frequency range sub-section		DC to 1 GHz
VSWR (Return loss)	50 Ω	≤ 1.1(≥ 26.44 dB)
	75 Ω	≤ 1.15 (≥ 23.13 dB)
Insertion loss	50 Ω to 75 Ω	≤ 5.7 dB
	75 Ω to50 Ω	≤ 5.7 dB
Insulation resistance		≥ 5 GΩ
Avrg. power rating (W)		0.7 W (@ 40 °C; linearly decreasing to 0 W @ 125 °C)

Material And Plating

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

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Mechanical Data	
Coupling Mechanisms	Screw-lock
Mating Cycles	≥ 500
Center contact captivation: axial	≥ 27 N
Coupling test torque	≤ 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm
Environmental Data	
Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition 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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