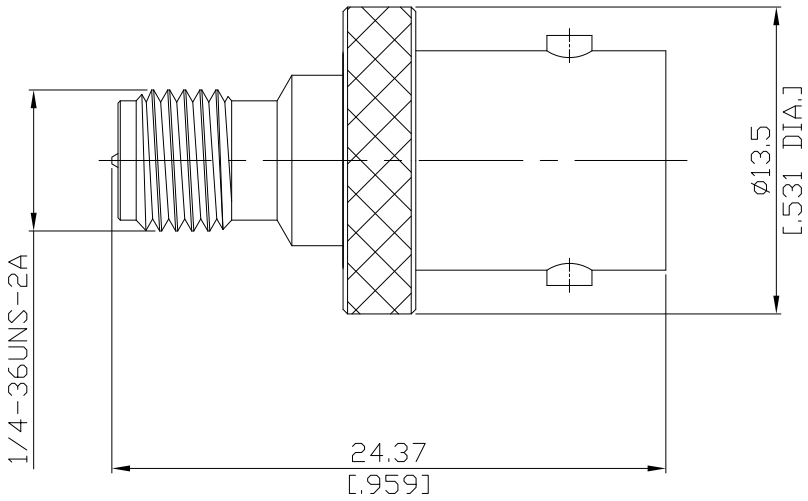
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA R/P plug (male) / BNC jack (female) Adapter
DC-6 GHz VSWR1.2

AD-A5B25A / 911-94



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

Interface

SMA side according to	IEC 60169-15; MIL-STD-348B/310
BNC side according to	MIL-STD-348B/301

Electrical Data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
VSWR (Return Loss)	DC- 4 GHz: ≤ 1.15 (≥ 23.13 dB)	4-6 GHz: ≤ 1.2 (≥ 20.83 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center contact resistance	≤ 3 mΩ, SMA side	≤ 1.5 mΩ, BNC side
Outer contact resistance	≤ 2 mΩ, SMA side	≤ 1.0 mΩ, BNC side
Test Voltage (at sea level)	1000 V rms	
Working Voltage (at sea level)	400 V rms	
RF Leakage	≤ 80 W @ 2 GHz	

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Piece Parts (BNC)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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Mechanical Data

	SMA Side	BNC Side
Coupling Mechanisms	Screw-lock	Bayonet-lock
Mating Cycles	min. 500	min. 500
Center Contact Captivation	≥ 27 N	≥ 27 N
Coupling test torque	max. 1.7 Nm	N/A
Coupling test torque	0.8 Nm to 1.1 Nm	N/A

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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