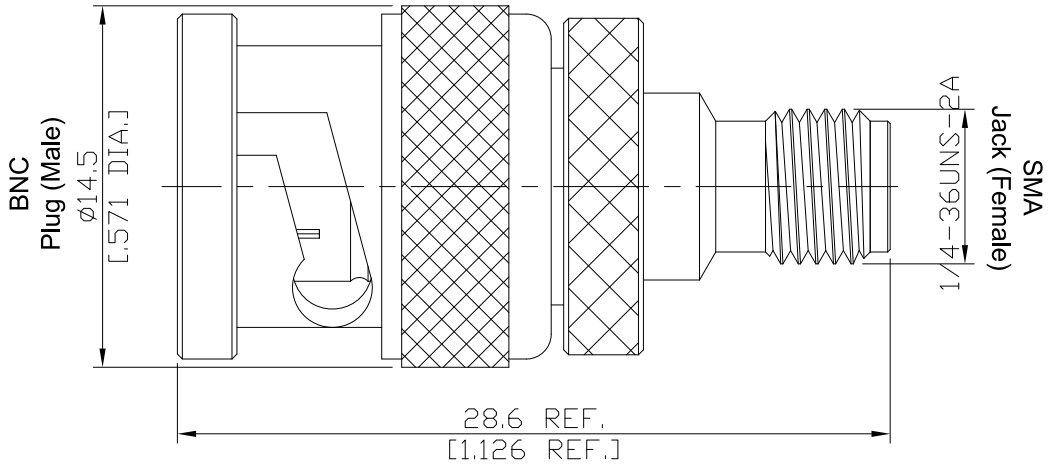
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

BNC Plug (Male) / SMA Jack (Female)
Straight Adapter DC- 4GHz VSWR1.15

AD-B1A25A / 933-91



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

Interface

BNC side according to	IEC 61169-8; CECC 22120; MIL-PRF-39012; MIL-STD-348B/301; BS 9210 N 004
SMA side according to	IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

Electrical Data

Impedance	50 Ω	
Frequency	DC to 4 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
Insertion Loss	≤ 0.04 x √F (GHz) dB	
Center contact resistance	≤ 1.5 mΩ, BNC side;	≤ 3 mΩ, SMA
Outer contact resistance	≤ 1 mΩ, BNC side;	≤ 2 mΩ, SMA
Test voltage	1000 V	
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz	

Material And Plating

Piece Parts (BNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel
Piece Parts (SMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	BNC side	SMA side
Coupling mechanisms	Bayonet-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 27 N	≥ 27 N
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.57 Nm

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

Single or 100

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