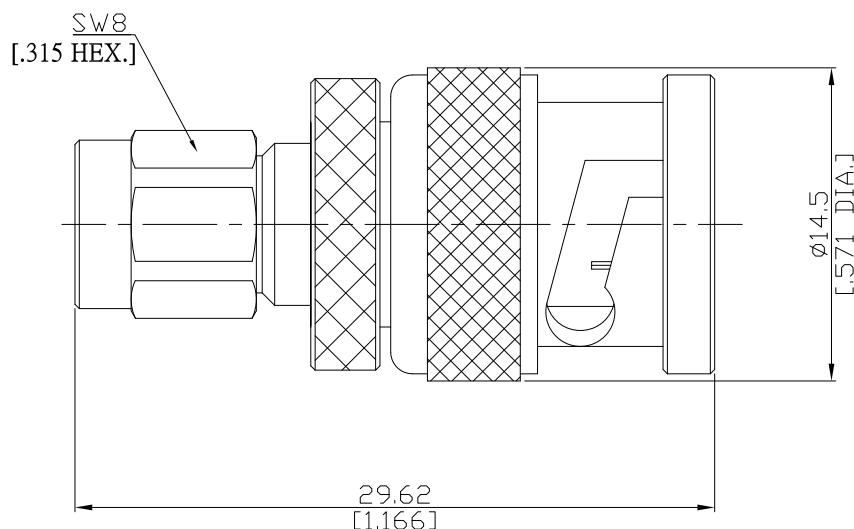


SMA plug (male) / BNC plug (male) Adapter
DC-6 GHz VSWR1.2

AD-A1B15A / 144-144



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

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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