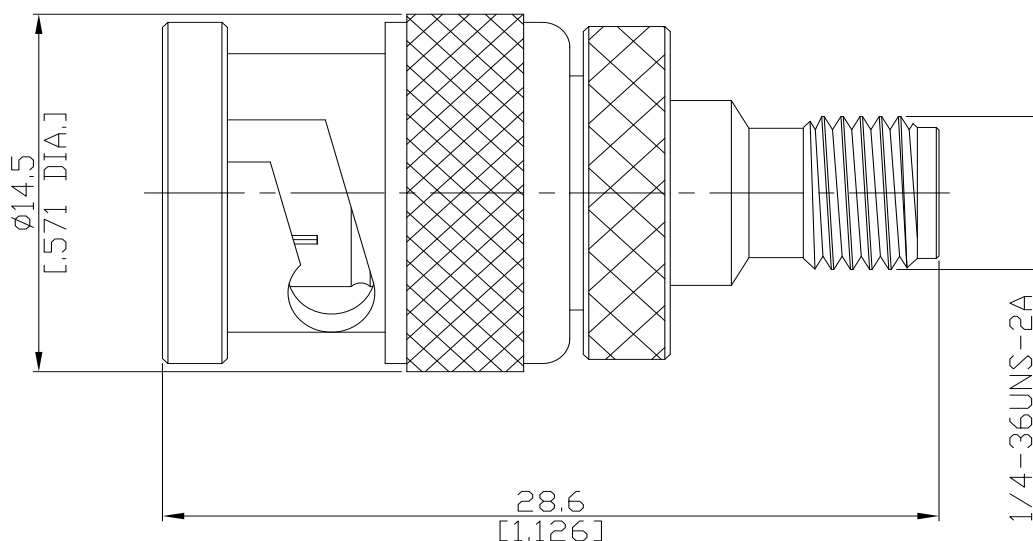


BNC plug (male) / SMA jack (female)
Straight adaptor DC- 4GHz VSWR1.15

AD-B1A25A / 144-91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

BNC side according to

IEC 60169-8; MIL-STD-348B/301

SMA side according to

IEC 60169-15; MIL-STD-348A/310

Electrical Data

Impedance

50 Ω

Frequency

DC to 4 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

≤ 0.04 × √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	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
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	

BNC plug (male) / SMA jack (female)
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Mechanical Data

Coupling mechanisms	BNC side	SMA side
Mating cycles	Bayonet-lock	Screw-lock
Center contact captivation: axial	min. 500	min. 500
Coupling test torque	≥ 28 N	≥ 27 N
Recommended torque	N/A	max. 1.7 Nm
	N/A	0.8 Nm to 1.1 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