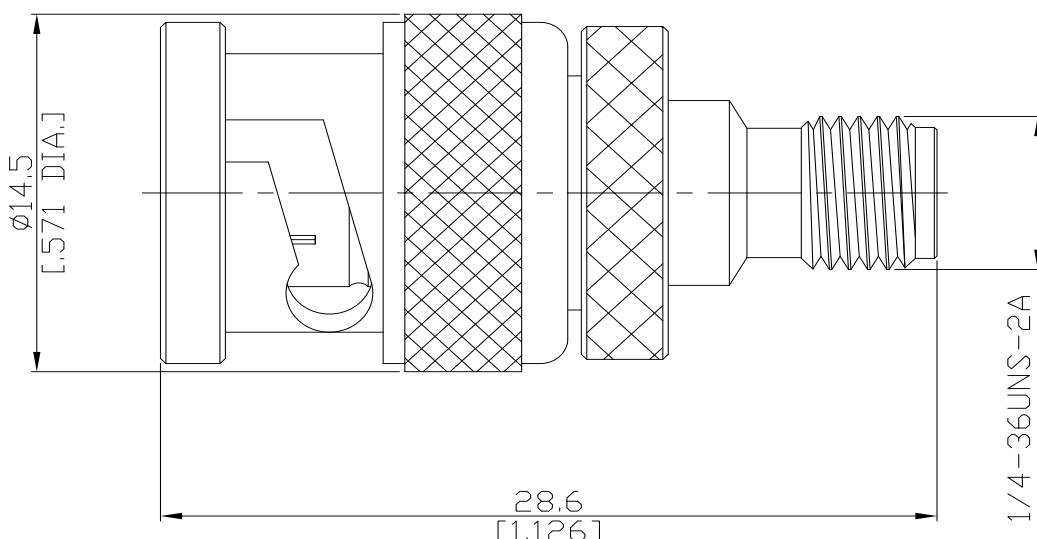


BNC plug (male) / SMA jack (female)  
Straight adaptor DC- 4GHz VSWR1.15

**AD-B1A25A / 133-H3**



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 ( $\geq 23.13$  dB)

Insertion Loss

≤  $0.04 \times \sqrt{f}$  (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 Nickel
Insulator	PTFE
Gasket	Silicone Rubber
Coupling nut	Brass Nickel

##### Piece Parts (SMA)

Material	Plating
Centre contact	Phosphor Bronze Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass Nickel
Insulator	PTFE

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

**AD-B1A25A / 133-H3**

**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