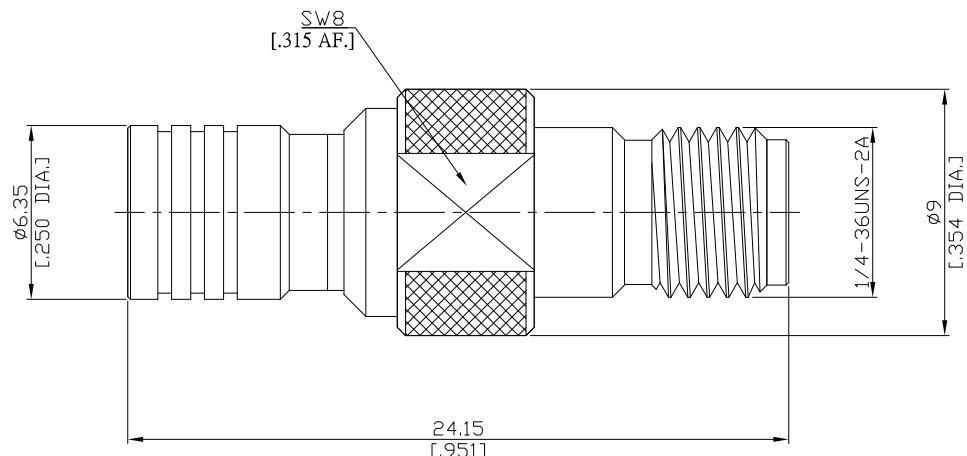


**SMB plug (male) / SMA jack (female)**  
**Adapter DC-4 GHz VSWR1.35**

**AD-S1A25A / 911-91**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

SMB side according to

IEC 60169-10; MIL-STD-348B/311

SMA side according to

DIN EN 61169-8; MIL-STD-348B/301

### Electrical Data

Impedance

50 Ω

Frequency

DC to 4 GHz

VSWR (Return Loss)

≤ 1.35 (≥ 16.54 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation Resistance

≥ 1 GΩ

Center Contact Resistance

≤ 5 mΩ, SMB side

≤ 3 mΩ, SMA side

Outer Contact Resistance

≤ 2.5 mΩ, SMB side

≤ 2 mΩ, SMA side

Test voltage

750 V rms

Working voltage

250 V rms

Contact current

1.5 A DC typ.

RF-leakage

55 dB up to 1 GHz

### Material And Plating

#### Piece Parts (SMB)

	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	
Coupling nut	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)

#### 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	

SMB plug (male) / SMA jack (female)  
Adapter DC-4 GHz VSWR1.35

## AD-S1A25A / 911-91

## Mechanical Data

	SMB Side	SMA Side
Coupling mechanisms	Snap-on	Screw-lock
Mating Cycles	min. 500	min. 500
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.8 Nm to 1.1 Nm
Center contact captivation: axial	≥ 10 N	≥ 10 N
Engagement force	≤ 63 N	N/A
Disengagement force	8 N min. to 63 N max.	N/A

## Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

## Packing

Single or 100