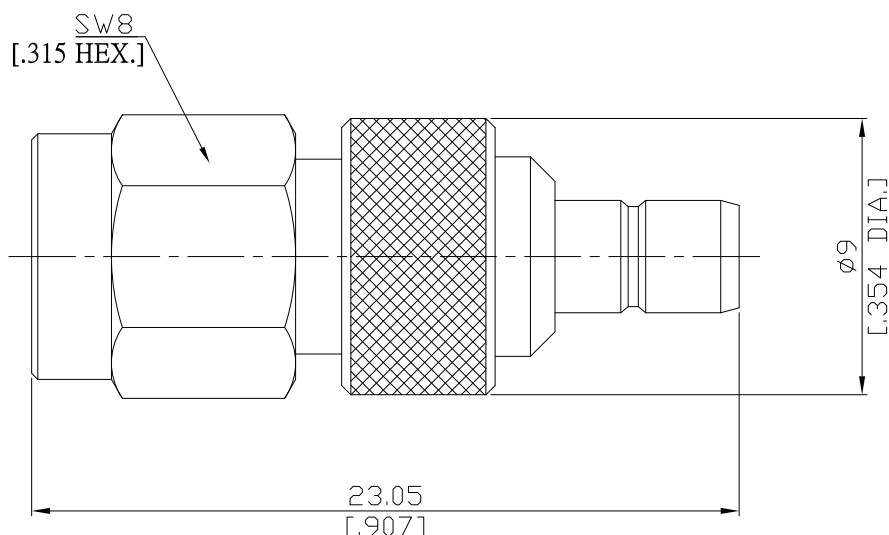


SMA plug (male) / SMB jack (female) Adapter
DC-4GHz VSWR1.35

AD-A1S25A / 111-11



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to

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

SMB according to

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 4 GHz

VSWR (Return Loss)

≤ 1.35 (≥ 16.54 dB)

Insertion Loss

≤ 0.04 × √F (GHz) dB

Insulation Resistance

≥ 5 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, 50 Hz, at sea level

Working voltage

≤ 250 V rms, 50 Hz, at sea level

Contact current

1.5 A DC typ

RF-leakage

≥ 55 dB up to 1 GHz

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Brass	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	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Piece Parts (SMB)	Material	Plating
Centre contact	Brass	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	

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Mechanical Data

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

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

Standard	Single
Weight	N/A