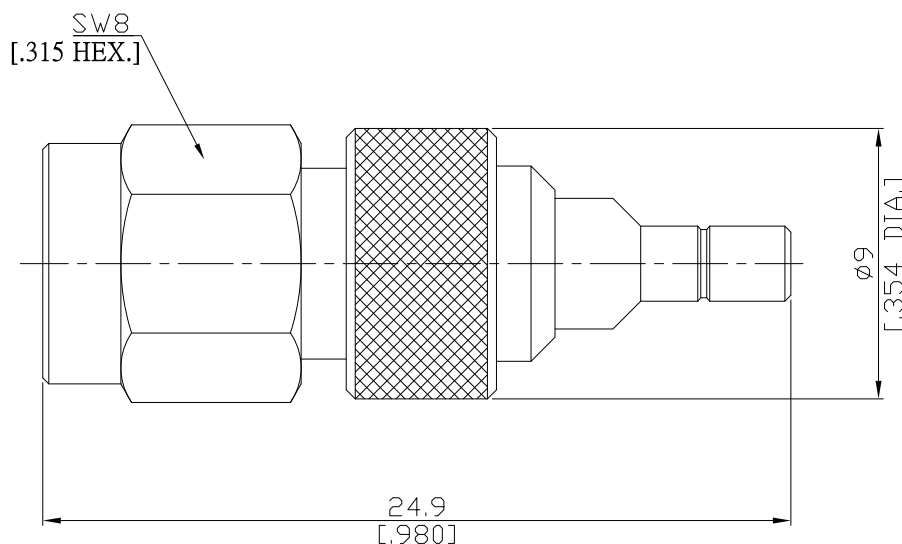


SMA plug (male) / SSMB jack (female)
Adapter DC-4GHz VSWR1.35

AD-A1SB25A / 111-11



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to
SSMB according to

IEC 60169-15; MIL-STD-348B/310
MIL-STD-348B/320

Electrical Data

Impedance	50 Ω	
Frequency	DC to 4 GHz	
VSWR (Return Loss)	≤ 1.35 (≥ 16.54 dB)	
Insertion Loss	$\leq 0.05 \times \sqrt{f}$ (GHz) dB	
Insulation Resistance	≥ 5 G Ω	
Center Contact Resistance	≤ 3.0 m Ω , SMA Side	≤ 5 m Ω , SSMB, Side
Outer Contact Resistance	≤ 3.0 m Ω , SMA Side	≤ 2.5 m Ω , SSMB, 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 (SMA)	Material	Plating
Centre contact	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Piece Parts (SSMB)	Material	Plating
Centre contact	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Insulator	PTFE	

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Mechanical Data

	SMA Side	SSMB Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Coupling test torque	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

Single or 100