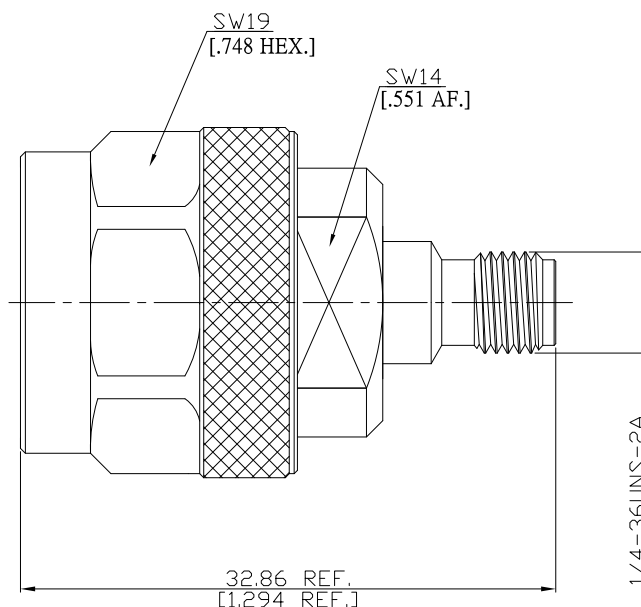


N plug (male) / SMA jack (female)
Straight adaptor DC-11GHz VSWR 1.20

AD-N1A25A / 933-93



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

N according to

IEC 60169-16; MIL-STD-348B/304; CECC 22210; MIL-PRF-39012

SMA according to

IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

Electrical Data

Impedance

50 Ω

Frequency

DC to 11 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.83 dB)

Insertion Loss

$\leq 0.03 \times \sqrt{f}$ (GHz) dB

Insulation resistance

≥ 5 G Ω

Center contact resistance

≤ 1 m Ω , N side

≤ 3 m Ω , SMA side

Outer contact resistance

≤ 0.25 m Ω , N side

≤ 2 m Ω , SMA side

Test voltage

1000 V rms

Working voltage

480 V rms

Power handling (at 20 °C, sea level, VSWR 1.0)

≤ 200 W @ 2 GHz

RF-leakage

≥ 100 dB up to 1 GHz

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel
Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	

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

Coupling mechanisms	N side	SMA side
Mating cycles	Screw-lock	Screw-lock
Coupling nut retention	min. 500	min. 500
Center contact captivation: axial	≥ 450 N	≥ 270 N
Coupling test torque	≥ 28 N	≥ 28 N
Recommended torque	max. 1.7 Nm	max. 1.7 Nm
	0.7 Nm to 1.1 Nm	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-55°C to +155°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