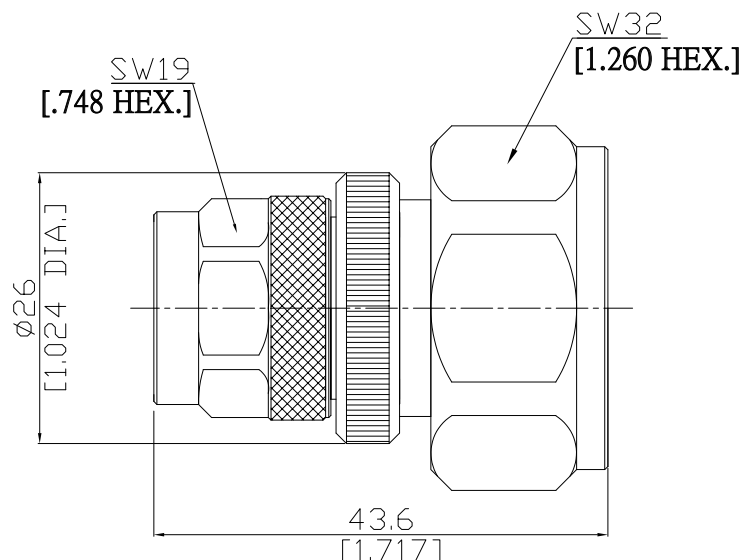


N plug (male) / 7/16 plug (male)
DC-7.5 GHz VSWR1.15

AD-N1D15A / 144-044



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

N according to

IEC 61169-16; MIL-STD-348B/304

7/16 according to

IEC 61169-4

Electrical Data

Impedance

50 Ω

Frequency

DC to 7.5 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23 dB)

Insertion loss

≤ 0.05 x √f (GHz)

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 1 mΩ, N side;

≤ 0.4 mΩ, 7-16 side

Outer contact resistance

≤ 0.25 mΩ, N side;

≤ 1.5 mΩ, 7-16 side

Working voltage

500 V rms

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

1000 W @ 1 GHz

700 W @ 2 GHz

RF-leakage

≥ 128 dB up to 1 GHz

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (7/16)	Material	Plating
Centre contact	Brass	Silver
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy

N plug (male) / 7/16 plug (male)
DC-7.5 GHz VSWR1.15

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Mechanical Data

	N side	7/16 side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	≥ 500	≥ 500
Coupling nut retention	≥ 450 N	≥ 1000 N
Center contact captivation: axial	≥ 200 N	≥ 200 N
radial	≥ 3 Ncm	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm	max. 35 Nm
Recommended torque	0.7 Nm to 1.1 Nm	25 to 30 Nm

Environmental Data

Temperature range	-65°C to +165°C
Rapid change of temperature	IEC 60068-2-14 Test Na
Corrosion salt mist	IEC 60068-2-11 Test Ka
Vibration	IEC 60068-2-6 Test Fc
Shock	IEC 60068-2-27 Test Ea
Climatic class	IEC 60068-1 (45/85/56)
Cold	IEC 60068-2-1 Test A
Dry heat	IEC 60068-2-2 Test B
Damp heat (steady state)	IEC 60068-2-3 Test Ca
Degree of protection (mated pair)	IEC 60529, IP68
RoHS	compliant

Packing

Single or 100