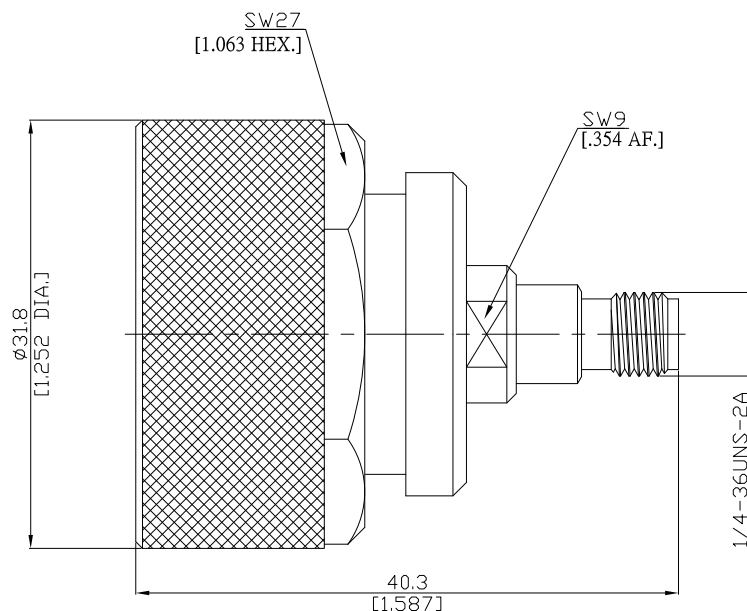


7/16 plug (male) / SMA jack (female) Straight Adapter  
DC-8.3 GHz VSWR 1.20

**AD-D1A25A / 044-84**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

7/16 according to

IEC 61169-4

SMA according to

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

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 8.3 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 21 dB)

Insertion Loss

≤ 0.03 x √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ, SMA side

≤ 0.4 mΩ, 7-16 side

Outer contact resistance

≤ 2 mΩ, SMA side

≤ 1.5 mΩ, 7-16 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 (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
Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Silver
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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**Mechanical Data**

	7/16 side	SMA side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	≥ 500	≥ 500
Coupling nut retention	≤ 1000 N	N/A
Center contact captivation: axial	≥ 200 N	≥ 200 N
Coupling test torque	max. 35 Nm	max. 0.6 Nm
Recommended torque	25 to 30 Nm	0.5 Nm

**Environmental Data**

Temperature range	-65°C to +165°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