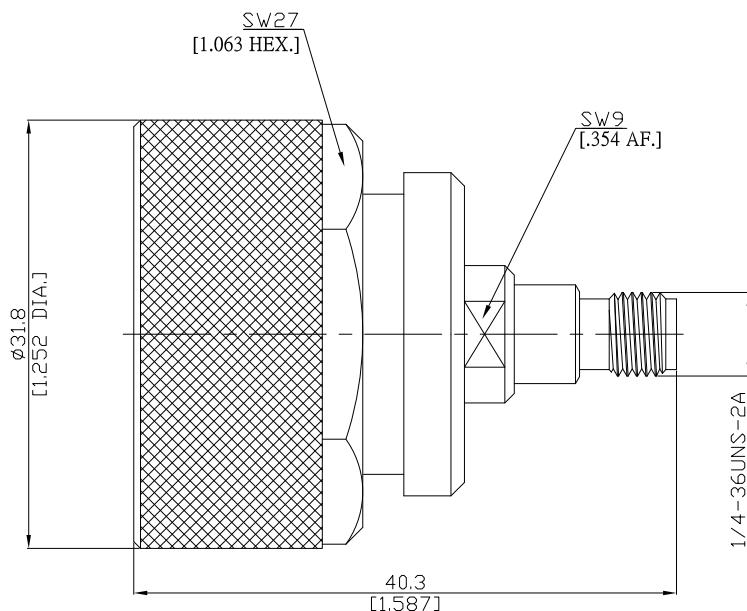


7/16 plug (male) / SMA jack (female) Straight Adapter
DC-8.3 GHz VSWR 1.20

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

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