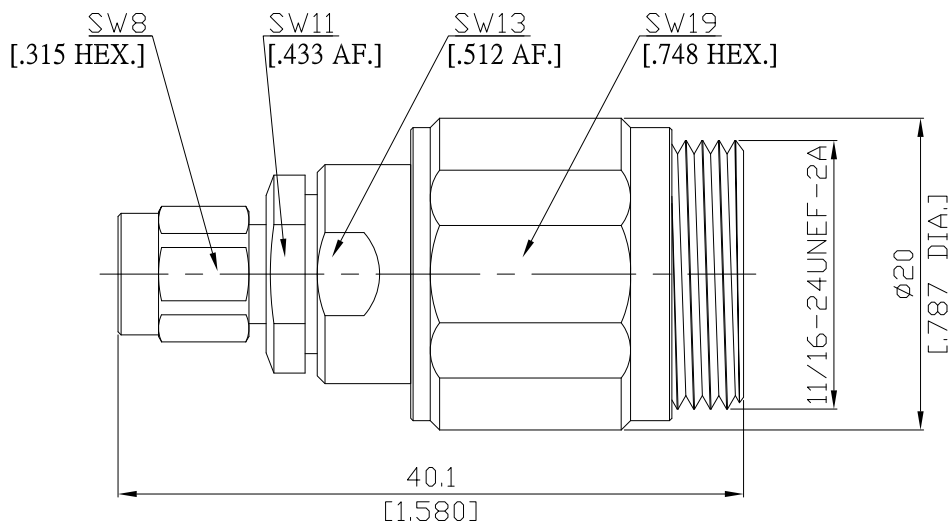


SMA plug (male) / 7mm sexless Adapter
DC-18GHz VSWR1.15

AD-A1P7X5A / 9XX-9XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Mechanically compatible with

According to

7mm Side

N/A

IEC 457-2

SMA Side

2.92mm and 3.5mm

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.1 dB)

Insertion Loss

$\leq 0.04 \times \sqrt{f}$ (GHz) dB

Insulation Resistance

≥ 5 G Ω

Test voltage

1000 V rms

Working voltage

480 V rms

RF Leakage

≥ 90 dB up to 1 GHz

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (7mm)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Stainless Steel	Passivated
Insulator	PS	
Coupling nut	Stainless Steel	Passivated

SMA plug (male) / 7mm sexless Adapter
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Mechanical Data

Coupling mechanisms	SMA Side	7mm side
Mating Cycles	Screw-lock	Screw-lock
Coupling Nut Retention	≥ 500	≥ 5000
Center Contact Captivation	≥ 270 N	N/A
Coupling Test Torque	≥ 28 N	≥ 28 N
Recommended Torque	1.70 Nm	1.95 Nm
	0.80 Nm to 1.10 Nm	1.36 Nm

Environmental Data

Temperature Range	-55°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Standard	Single
Weight	N/A