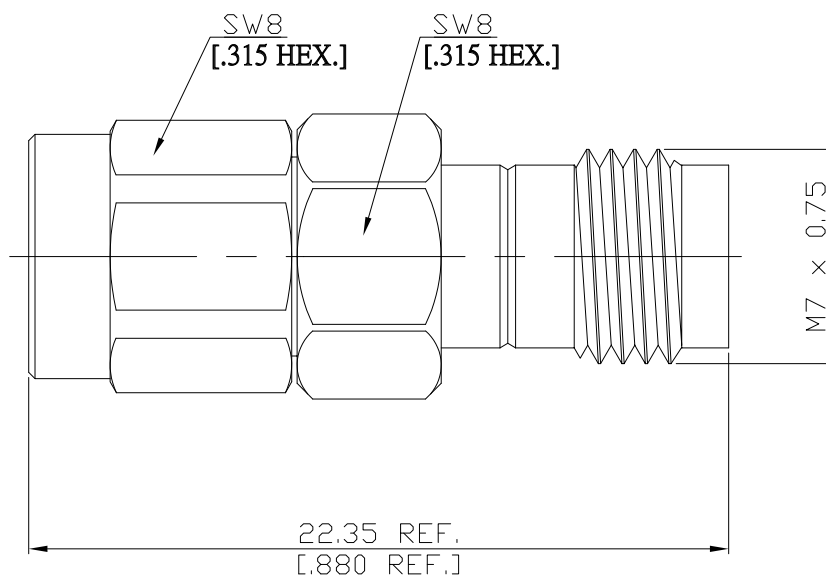


SMA plug (male) / 2.4mm jack (female) Adapter
DC-18GHz VSWR1.15

AD-A1Q25A / 9XX-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Mechanically compatible with

According to

SMA Side

2.92mm and 3.5mm

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

2.4mm Side

1.85mm

IEC 61169-40, IEEE Std 287

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

$\leq 0.05 \times \sqrt{f}$ (GHz) dB

Insulation Resistance

≥ 5 G Ω

Center Contact Resistance SMA

≤ 3 m Ω

Outer Contact Resistance SMA

≤ 2 m Ω

Center Contact Resistance 2.4mm

≤ 4 m Ω

Outer Contact Resistance 2.4mm

≤ 2.5 m Ω

Test Voltage (at sea level)

500 V rms

Working Voltage (at sea level)

150 V rms

RF Leakage

≥ 100 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	
Coupling nut	Stainless Steel	Passivated
Piece Parts (2.4mm)	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	
Gasket	Silicone Rubber	

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Mechanical Data

	SMA Side	2.4mm Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Coupling Nut Retention	≥ 270 N	≥ 270 N
Center Contact Captivation	≥ 20 N	≥ 20 N
Coupling Test Torque	1.70 Nm max.	1.65 Nm max.
Recommended Torque	0.9 Nm	0.9 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