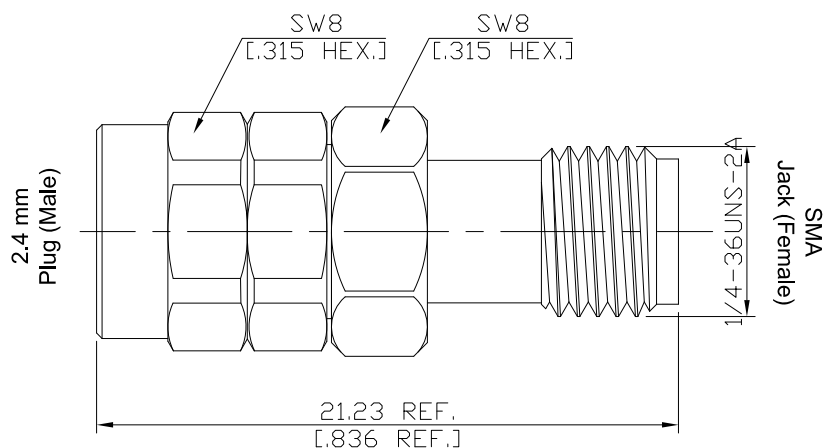


2.4mm Plug (Male) / SMA Jack (Female)
Straight Adapter DC-18GHz VSWR1.15

AD-Q1A25A / 9XX-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

2.4mm According to

IEC 61169-40; IEEE Std 287; MIL-STD-348B/324

2.4mm Mechanically compatible with

1.85 mm

SMA According to

IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

SMA Mechanically compatible with

2.92 mm and 3.5 mm

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

≤ 4 m Ω , 2.4mm side

≤ 3 m Ω , SMA side

Outer Contact Resistance

≤ 2.5 m Ω , 2.4mm side

≤ 2 m Ω , SMA side

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 (2.4mm)		Material	Plating
Centre contact		Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body		Stainless Steel	Passivated
Insulator		PEI	
Gasket		Silicone Rubber	
Coupling nut		Stainless Steel	Passivated
Piece Parts (SMA)		Material	Plating
Centre contact		Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body		Stainless Steel	Passivated
Insulator		PTFE	

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Mechanical Data

	2.4mm Side	SMA Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Center Contact Captivation	≥ 20 N	≥ 20 N
Coupling Test Torque	1.65 Nm max.	1.70 Nm max.
Recommended Torque	0.80 Nm to 1.10 Nm	0.80 Nm to 1.10 Nm

Environmental Data

Temperature Range	-65°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

Single or 100