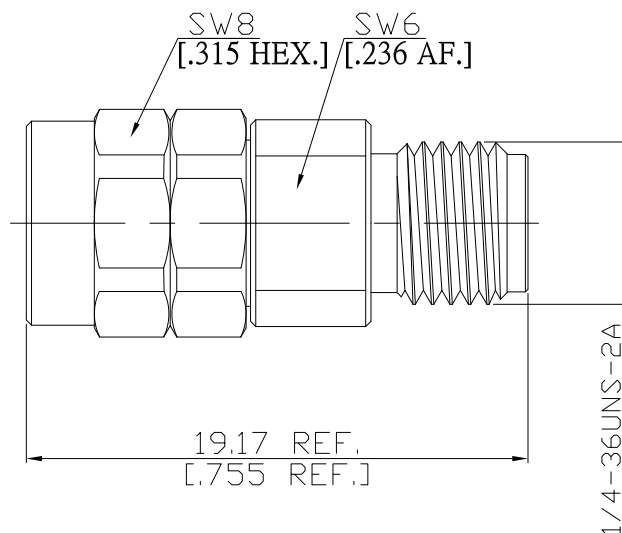


2.4mm Plug (Male) to Precision SMA Jack (Female) Adapter
DC-27GHz VSWR1.15

AD-Q1PCA25A / 9XX-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Mechanically compatible with
According to

2.4mm Side
1.85mm
IEC 61169-40, IEEE Std 287

Precision SMA Side
2.92mm and 3.5mm
IEC 60169-15, MIL-STD-348B/310

Electrical Data

Impedance
Frequency
VSWR (Return Loss)
Insertion Loss
Insulation Resistance
Center Contact Resistance 2.4mm
Outer Contact Resistance 2.4mm
Center Contact Resistance Precision SMA
Outer Contact Resistance Precision SMA
Test Voltage (at sea level)
Working Voltage (at sea level)
RF Leakage

50 Ω
DC to 27 GHz
≤ 1.15 (≥ 23.13 dB)
≤ 0.05 × √F (GHz) dB
≥ 5 GΩ
≤ 4 mΩ
≤ 2.5 mΩ
≤ 3 mΩ
≤ 2 mΩ
500 V rms
150 V rms
≥ 100 dB up to 1 GHz

Material And Plating

Piece Parts (2.4mm)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PEI	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Piece Parts (Precision SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	

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Mechanical Data

	2.4mm Side	Precision SMA 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	1.65 Nm max.	1.70 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