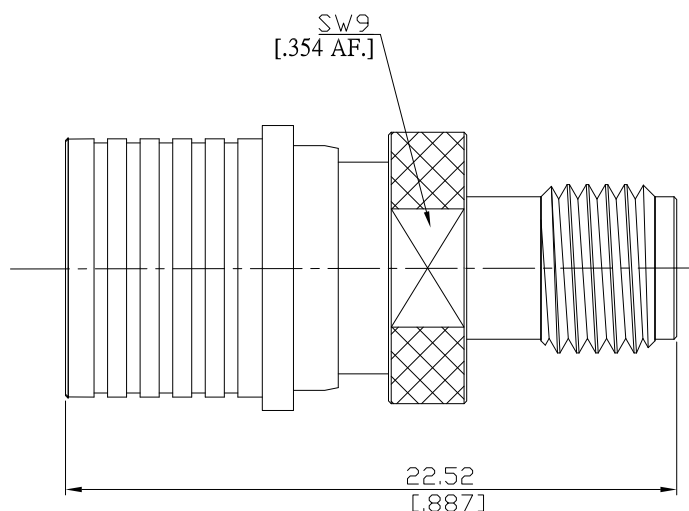




QMA Plug (Male) to SMA Jack (Female) Adapter  
DC-18GHz VSWR 1.20

**AD-QA1A25B / 944-94**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

According to

QMA Side  
IEC 61169-50

SMA Side  
IEC 60169-15; MIL-STD-348B/310

**Electrical Data**

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)
Insertion Loss	≤ 0.05 × √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 3.0 mΩ, QMA Side
Outer Contact Resistance	≤ 2.5 mΩ, QMA Side
Test Voltage (at sea level)	1000 V rms
Working Voltage (at sea level)	480 V rms

≤ 3.0 mΩ, SMA Side  
≤ 2.0 mΩ, SMA Side

**Material And Plating**

Piece Parts (QMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Coupling Nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	



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**Mechanical Data**

	QMA Side	SMA Side
Coupling mechanisms	Quick-lock	Screw-lock
Mating Cycles	≥ 100	≥ 500
Coupling Nut Retention	N/A	N/A
Center Contact Captivation: axial	≥ 20 N	≥ 20 N
Weight	N/A	
Coupling Test Torque	N/A	0.5 Nm
Recommended Torque	N/A	0.56 Nm

**Environmental Data**

Temperature Range	-40°C to +85°C
Thermal shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hours)
Vibration	IEC 60068-2-64 (random)
Damp heat, steady state	IEC 60169-1 16.3 (96 hours)
RoHS	compliant

**Packing**

Single or 100