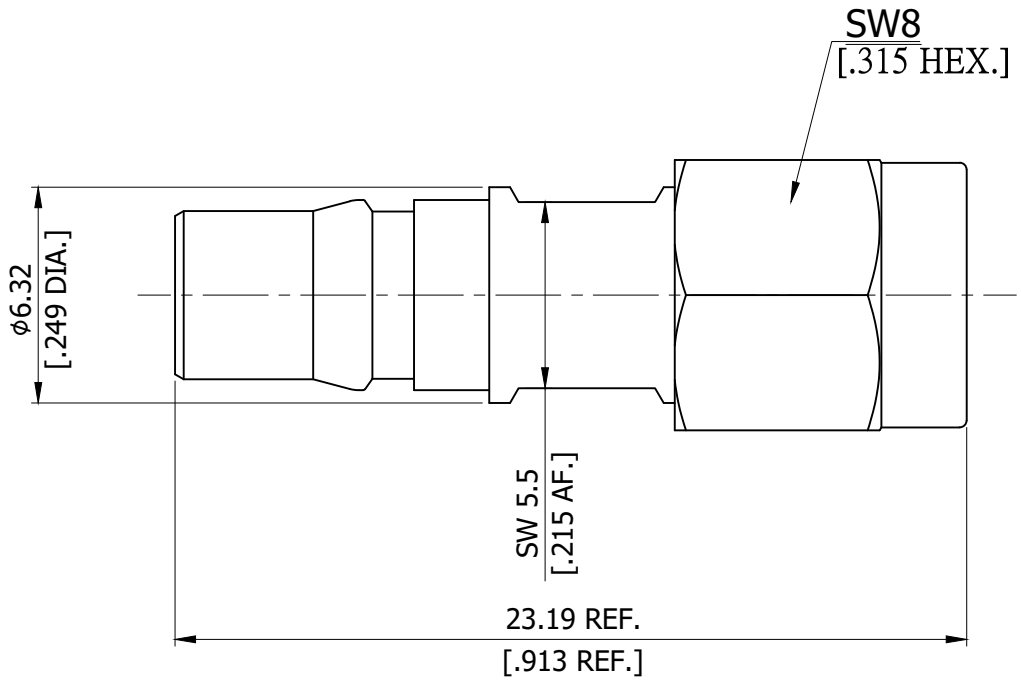
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA Plug (Male) To QMA Jack (Female) Snap on Adapter
DC-18GHz VSWR1.2

AD-A1QA25A / 944-94



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

	QMA Side	SMA Side
According to	IEC 61169-50	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 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ, QMA Side	≤ 3.0 mΩ, SMA Side
Outer Contact Resistance	≤ 2.5 mΩ, QMA Side	≤ 2.0 mΩ, SMA Side
Test Voltage (at sea level)	1000 V rms	
Working Voltage (at sea level)	480 V rms	

Material And Plating

Piece Parts (QMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Phosphor Bronze	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

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