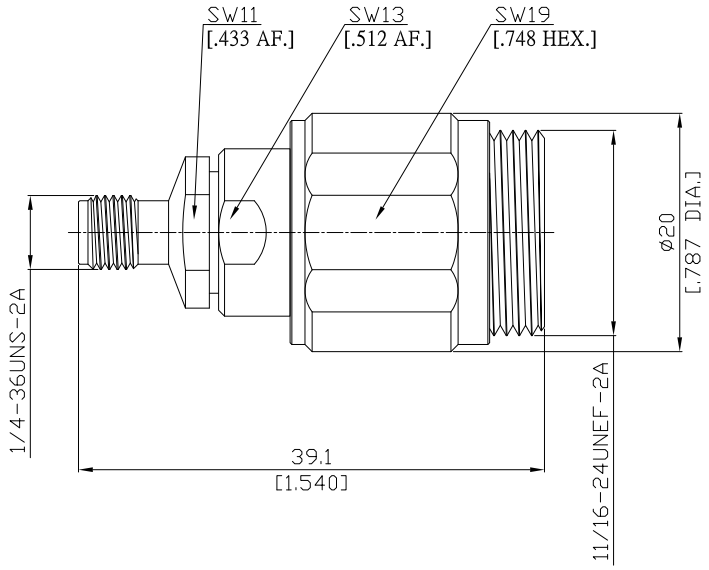
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA jack (female) / 7mm sexless Adapter
DC-18GHz VSWR1.15

AD-A2P7X5A / 9X-9XX



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

Interface

	7mm Side	SMA Side
Mechanically compatible with	N/A	2.92mm and 3.5mm
According to	IEC 457-2	IEC 60169-15, MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.1 dB)
Insertion Loss	≤ 0.04 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Test voltage	1000 V rms
Working voltage	480 V rms
RF Leakage	≥ 90 dB up to 1 GHz

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Piece Parts (7mm)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PS	
Coupling nut	Stainless Steel	Passivated

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Mechanical Data

	SMA Side	7mm side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 5000
Coupling Nut Retention	≥ 270 N	N/A
Center Contact Captivation	≥ 28 N	≥ 28 N
Coupling Test Torque	1.70 Nm	1.95 Nm
Recommended Torque	0.80 Nm to 1.10 Nm	1.36 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

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