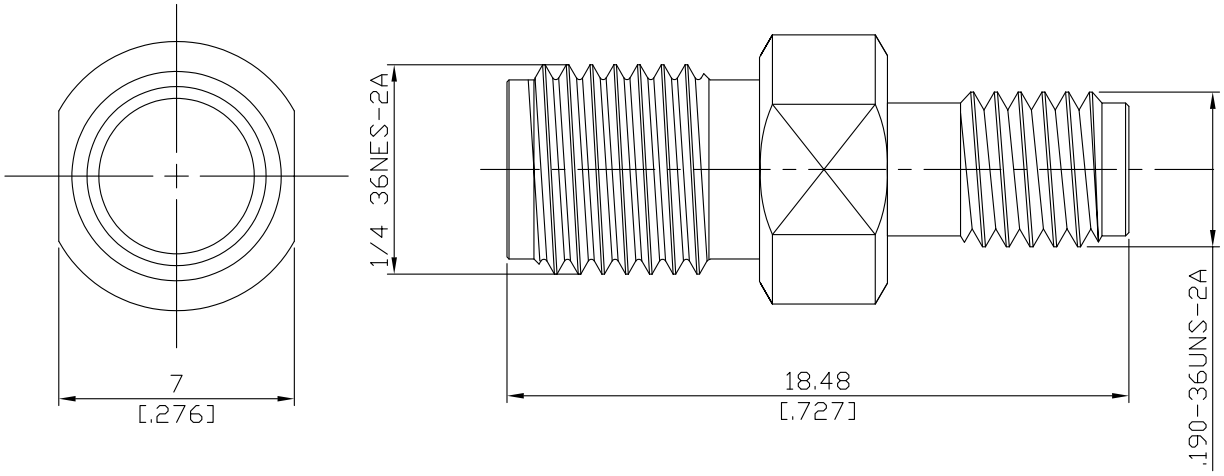
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA jack (female) / SSMA jack (female)
Adapter DC-18GHz VSWR1.20

AD-A2SA25A / 9X-9X



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

Interface

SMA according to	IEC 60169-15; MIL-STD-348B/310
SSMA according to	MIL-STD-348B/319

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ, SMA Side	≤ 3.0 mΩ, SSMA Side
Outer Contact Resistance	≤ 3.0 mΩ, SMA Side	≤ 3.0 mΩ, SSMA Side
Test Voltage (at sea level)	1000 V rms	
Working Voltage (at sea level)	480 V rms	
Power handling	≤ 200 W @ 2 GHz	
RF-leakage	≥ 100 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	
Piece Parts (SSMA)	**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

	SMA Side	SSMA Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Center Contact Captivation: axial	≥ 28 N	≥ 28 N
radial	≥ 3 Ncm	≥ 3 Ncm
Coupling Test Torque	1.7 Nm max.	1.7 Nm max.
Recommended Torque	0.9 Nm	0.9 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, Conditon 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

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