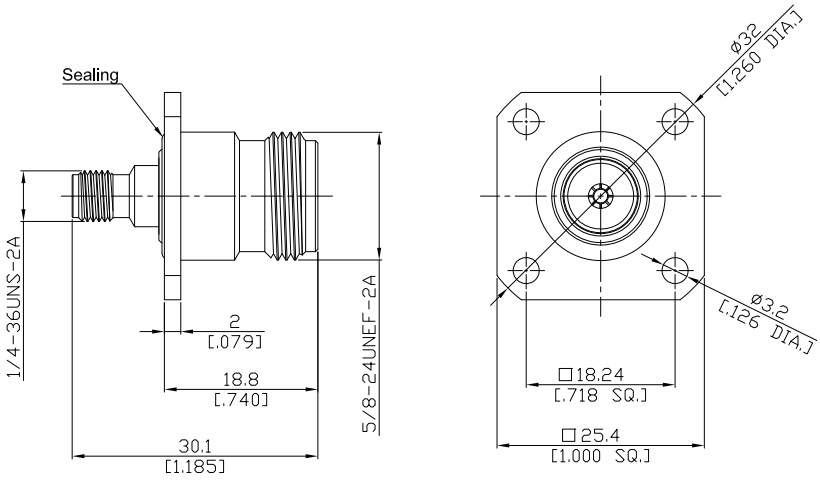
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA Jack (Female) to N Jack (Female) Panel 4 Hole Flange Mount Adapter DC-11GHz VSWR1.15

AD-A2N25A-PF / 91-H3



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

Interface

	SMA Side	N Side
Mechanically compatible with	1.85mm	3.5mm and SMA
According to	IEC 61169-40, IEEE Std 287	IEC 61169-35, IEEE Std 287

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
Insertion Loss	≤ 0.03 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3 mΩ, SMA side	≤ 1 mΩ, N side
Outer Contact Resistance	≤ 2 mΩ, SMA side	≤ 0.25 mΩ, N side
Test Voltage	1000 V rms	
Working Voltage	480 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 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	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Insulator	PTFE	
Piece Parts (N)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	

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Mechanical Data

	SMA Side	N Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Center Contact Captivation axial	≥ 28 N	≥ 28 N
Coupling Test Torque	1.7 Nm max.	1.70 Nm max.
Recommended Torque	0.9 Nm	1.36 Nm

Environmental Data

Temperature Range	-55°C to +155°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

Weight

N/A

Packing

Single or 100

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