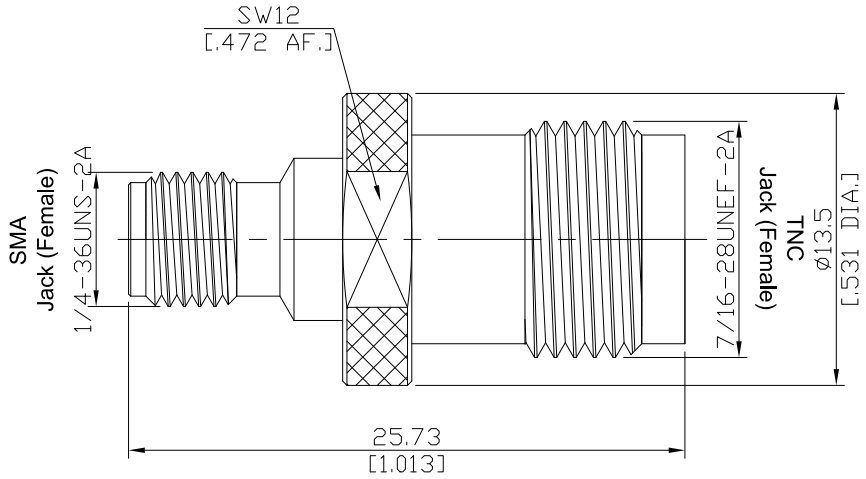
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

SMA Jack (Female) to TNC Jack (Female) Straight Adapter, DC – 11 GHz, VSWR 1.20

AD-A2T25A / 93-93



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

Interface

SMA according to	IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110
TNC according to	IEC 61169-17; CECC 22200; MIL-PRF-39012; MIL-STD-348B/313; DIN EN 122200

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion Loss	≤ 0.04 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ, SMA Side	≤ 1.5 mΩ, TNC side
Outer Contact Resistance	≤ 2.0 mΩ, SMA Side	≤ 1 mΩ, TNC side
Test Voltage	1000 V rms	
Working Voltage	480 V rms	
Power handling	≤ 80 W @ 2 GHz	

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	
Piece Parts (TNC)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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SMA Jack (Female) to TNC Jack (Female) Straight Adapter, DC–11 GHz, VSWR 1.20

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Mechanical Data

	SMA Side	TNC Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	min. 500	min. 500
Center contact captivation: axial	≥ 27 N	≥ 27 N
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	0.57 Nm	0.46 Nm to 0.69 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

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