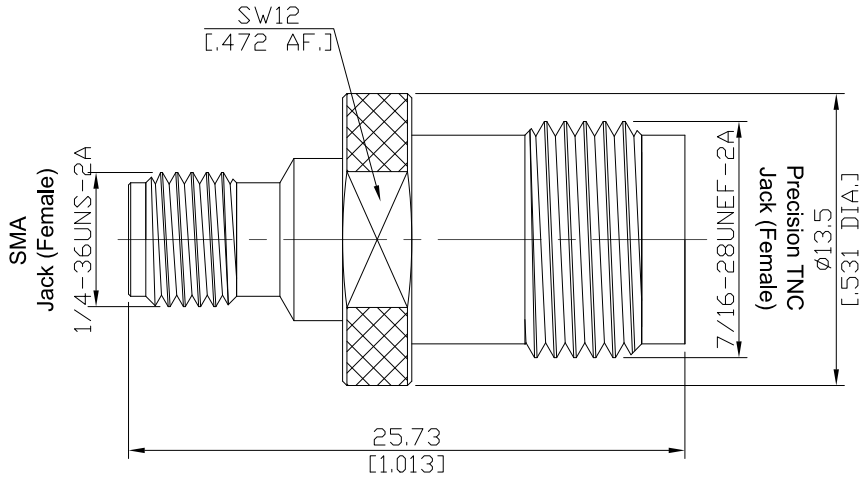
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA Jack (Female) to Precision TNC Jack (Female), Straight Adapter, DC-18 GHz, VSWR 1.25

AD-A2PCT25B / 91-94



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
Precision TNC According to	IEC 61169-26; CECC 22 200; MIL-PRF-39012; MIL-STD-348B/406

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)	
Insertion Loss	≤ 0.1x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ, SMA Side	≤ 1.5 mΩ, Precision TNC side
Outer Contact Resistance	≤ 2.0 mΩ, SMA Side	≤ 1 mΩ, Precision TNC side
Test Voltage	1000 V rms	
Working Voltage	480 V rms	

Material And Plating

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

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Mechanical Data

	SMA Side	Precision TNC Side
Coupling mechanisms	Screw-On	Screw-On
Mating Cycles	≥ 500	≥ 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. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

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