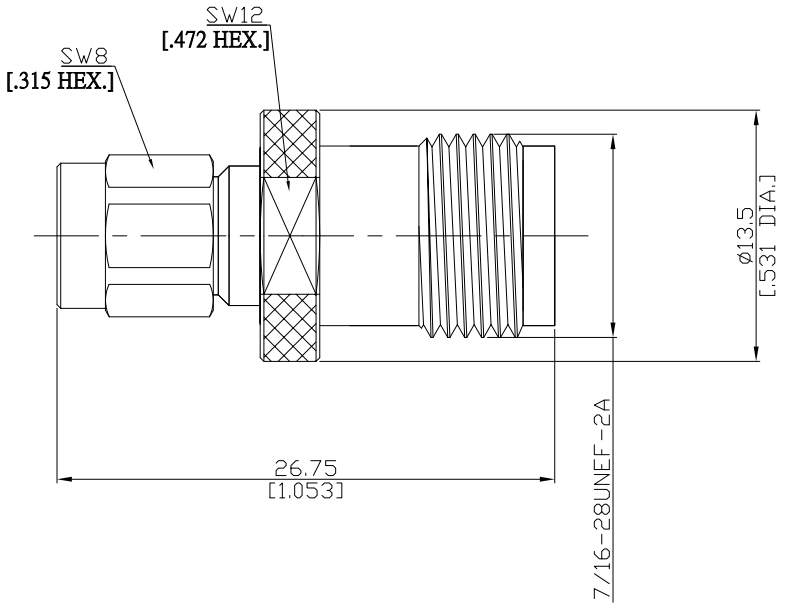
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA Reverse-Polarity Plug (RP Male) to TNC Jack (Female) Adapter DC-11 GHz VSWR1.20

AD-A5T25A / H33-H3



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

Interface

	RP SMA (derrived)	TNC
According to	IEC 60169-15; MIL-STD-348A/310	IEC 60169-17; MIL-STD-348A/313

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3 mΩ, RP SMA Side	≤ 1.5 mΩ, TNC Side
Outer Contact Resistance	≤ 2 mΩ, RP SMA Side	≤ 1 mΩ, TNC Side
Test Voltage (at sea level)	1000 V rms	
Working Voltage (at sea level)	480 V rms	

Material And Plating

Piece Parts (RP SMA)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone rubber	
Coupling nut	Brass	Nickel
Piece Parts (TNC)	**Material**	**Plating**
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	

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Mechanical Data

	RP SMA Side	TNC Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Coupling Nut Retention	≥ 270 N	N/A
Center Contact Captivation: axial	≥ 27 N	≥ 27 N
Weight	N/A	
Coupling Test Torque	1.7 Nm max.	1.7 Nm max.
Recommended Torque	0.56 Nm	1.36 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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