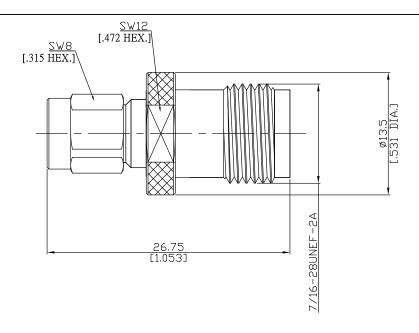


Technical Data Sheet

SMA plug (male) / TNC jack (female) Adaptors Straight DC-11GHz VSWR1.20

AD-A1T25A / 911-93



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to TNC according to

Electrical Data

Impedance Frequency

VSWR (Return Loss)
Insertion Loss

Insulation Resistance

Center Contact Resistance

Outer Contact Resistance

Test Voltage

Working Voltage (at sea level)

Power Handling (at 20 °C, sea level, VSWR 1.0)

IEC 60169-15; MIL-STD-348B/310 IEC 60169-17; MIL-STD-348B/313

50 Ω

DC to 11 GHz

≤ 1.20 (≥ 20.83 dB)

≤ 0.05 x √F (GHz) dB

≥ 5 GΩ

 \leq 3 m Ω , SMA side

 \leq 2 m Ω , SMA side

1000 V rms

 $480\ V\ rms$

≤ 80 W @ 2 GHz

 \leq 1.5 m Ω , TNC side \leq 1 m Ω , TNC side

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	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating, 3 µinch
		(Non-magnetic nickel-phosphorus underplating, 80 µinch)
Piece Parts (TNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch
		(Non-magnetic nickel-phosphorus underplating, 80 µinch)
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.	I Kev.:-	Rosnol RF/Microwave Technology Co., Ltd.	Page
	In the effort to improve our products, we reserve the right to make changes		www.rosnol.com; info@rosnol.com Phone: +886-3-463-5095 / Fax: +886-3-463-5952	1 /2
			N-CAGE Code: SFKK0 / ISO9001 Certified	1/2



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AD-A1T25A / 911-93

Mechanical Data

Coupling mechanisms

Mating Cycles

Coupling nut retention

Center Contact Captivation: axial

Coupling Test Torque

Recommended Torque

O.

Environmental Data

Temperature Range
Thermal shock
Corrosion
Vibration
Shock
Moisture Resistance

RoHS Packing

 SMA side
 TNC side

 Screw-lock
 Screw-lock

 min. 500
 min. 500

 ≥ 27 N
 N/A

 ≥ 3 Ncm
 ≥ 27 N

 1.7 Nm max.
 max. 1.7 Nm

 0.9 Nm
 0.46 Nm to 0.69 Nm

-65°C to +155°C

MIL-STD-202, Meth. 107, Cond. B MIL-STD-202, Meth. 101, Cond. B MIL-STD-202, Meth. 204, Cond.D MIL-STD-202, Meth. 213, Cond. I MIL-STD-202, Meth. 106 compliant

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Single or 100