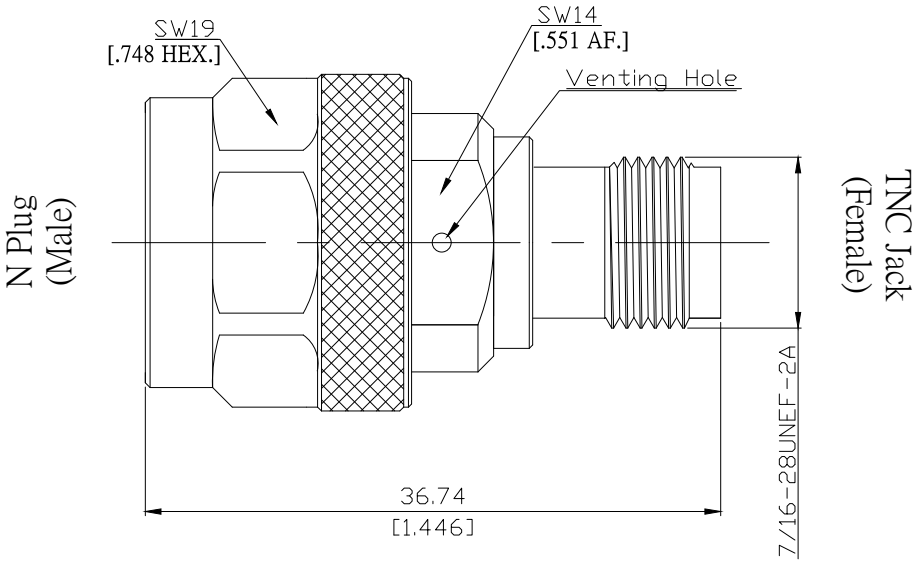
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

N Plug(male) to TNC Jack(female)Straight Adapter With Venting Hole For TVAC Application DC-10 GHz, VSWR 1.2

TVAC-AD-N1T25A / H44-H4



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

Interface

N according to	IEC 61169-8; MIL-STD-348B/301
TNC according to	IEC 60169-17; MIL-STD-348B/313

Electrical Data

Impedance	50 Ω	
Frequency	DC to 10 GHz	
VSWR (Return Loss)	≤ 1.2 (≥ 20.8 dB) (235-275 MHz)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1 mΩ, N side;	≤ 1.5 mΩ, TNC side
Outer contact resistance	≤ 0.25 mΩ, N side;	≤ 1 mΩ, TNC side
Power handling	≥ 600 W, (235-275 MHz)	
Peak Power handling	≥ 2400 W, 25 % duty cycle 1 kHz PRF	
TML	< 1 %	
CVCM	< 0.1 %	

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (TNC)	**Material**	**Plating**
Centre contact	Phosphor Bronze	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

N Plug(male) to TNC Jack(female)Straight Adapter With Venting Hole For TVAC Application DC-10 GHz, VSWR 1.2

TVAC-AD-N1T25A / H44-H4

Mechanical Data

	N side	TNC side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm	0.46 Nm to 0.69 Nm

Environmental Data

Temperature Range	-40°C to +65°C(Vacuum better than 10^-5 torr)
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

Singleor 100

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified