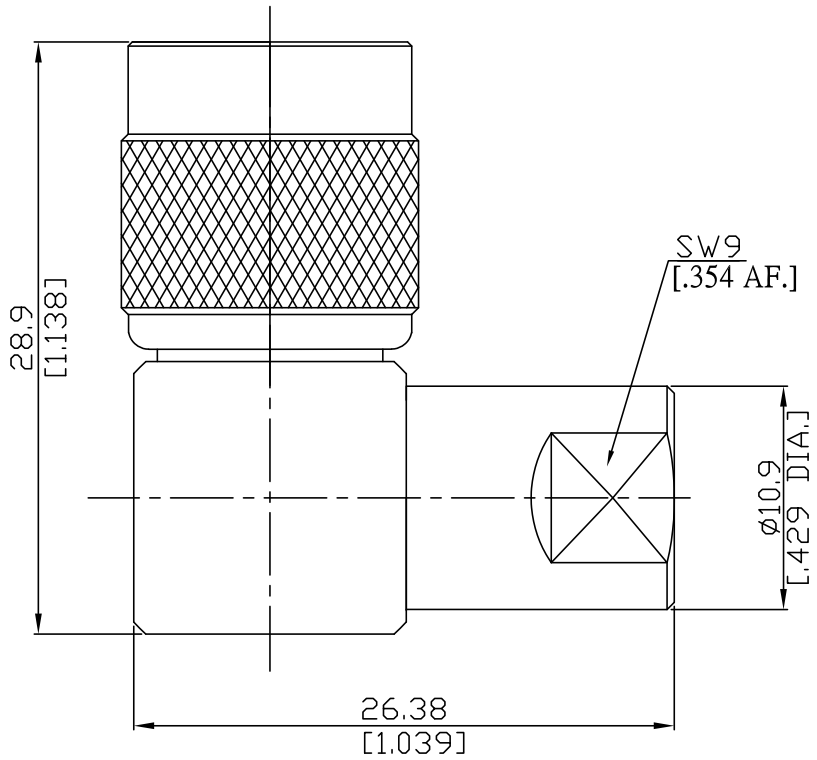
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

TNC plug (male) / N jack (female) L-adaptor DC-3 GHz VSWR 1.11

ADL-T1N25A / 9XX-9X



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

Interface

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

Electrical Data

Impedance	50 Ω	
Frequency	DC to 3 GHz	
VSWR	≤ 1.11 (≥ 26 dB)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.5 mΩ, TNC side	≤ 1 mΩ, N side
Outer contact resistance	≤ 1 mΩ, TNC side	≤ 0.25 mΩ, N side
Test voltage (at sea level)	1500 V rms	
Working voltage (at sea level)	500 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	80 W @ 2 GHz	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Material And Plating

Piece Parts (TNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (N)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc
Body	Stainless Steel	Passivated
Insulator	PTFE	

Mechanical Data

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

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition G
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Singleor 100

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