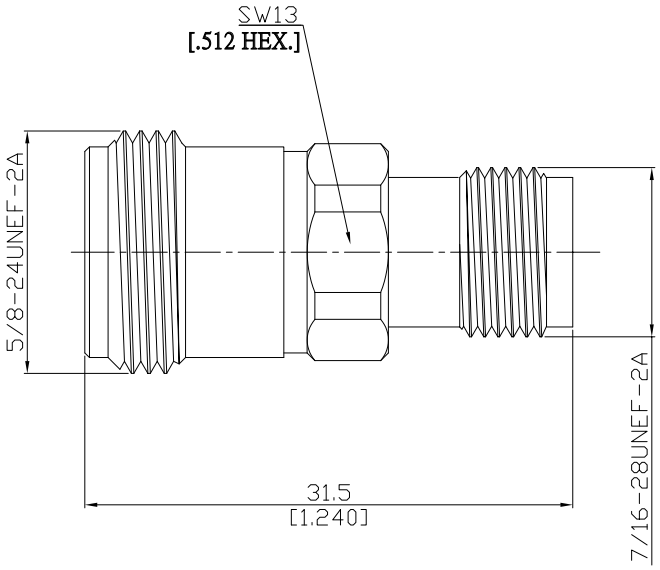
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision N Jack (Female) to Precision TNC Jack (Female) Straight Adaptor DC-18 GHz VSWR ≤ 1.15

AD-PCN2PCT25B / 93-93



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

Interface

Precision N according to	IEC 60169-16; MIL-STD 348B/402
Precision TNC according to	IEC 60169-26

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
Insertion Loss	≤ 0.1 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 1.0 mΩ, Precision N Side	≤ 1.5 mΩ, Precision TNC Side
Outer Contact Resistance	≤ 1.0 mΩ, Precision N Side	≤ 1.0 mΩ, Precision TNC Side
Test Voltage (at sea level)	1500 V rms	
Working Voltage (at sea level)	500 V rms	

Material And Plating

Piece Parts (Precision N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Nickel
Insulator	PTFE	
Piece Parts (Precision TNC)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Nickel
Insulator	PTFE	

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Precision N Jack (Female) to Precision TNC Jack (Female) Straight Adaptor DC-18 GHz VSWR ≤ 1.30

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Mechanical Data

	Precision N Side	Precision TNC Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Coupling Nut Retention	N/A	N/A
Center Contact Captivation: axial	≥ 27 N	≥ 27 N
Coupling Test Torque	1.7 Nm max.	1.7 Nm max.
Recommended Torque	1.35 Nm	1.35 Nm

Environmental Data

Temperature Range	-60°C to +100°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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