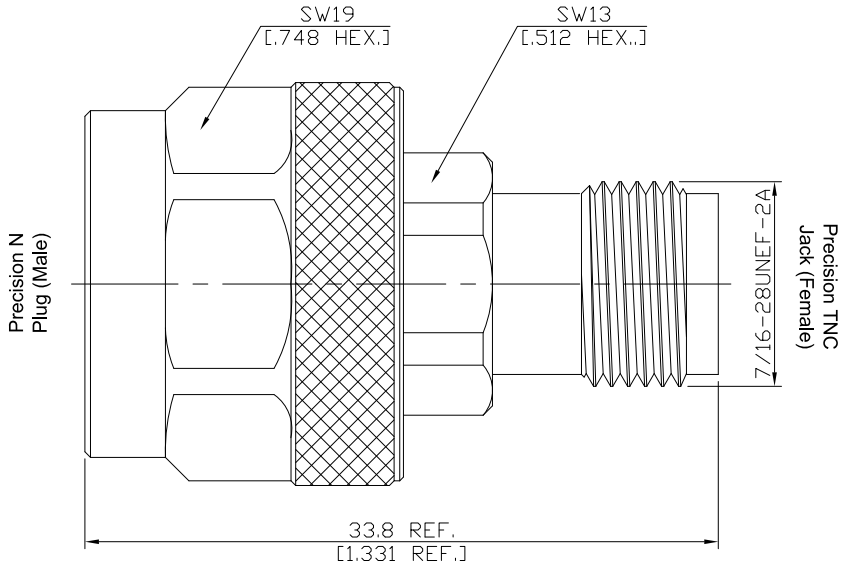
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision N Plug (Male) to Precision TNC Jack (Female) Straight Adapter, DC-18 GHz, VSWR 1.2

AD-PCN1PCT25B / H33-H3



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

Interface

Precision N According to	IEC 61169-16; MIL-STD 348B/402; IEEE Std 287; MIL-PRF-39012
Precision TNC According to	IEC 61169-26; CECC 22200; MIL-PRF-39012; MIL-STD-348B/406

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.2 (≥ 20.83 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	≤ 0.25 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	
Power handling (at 20 °C, sea level, VSWR 1.0)	80 W @ 2 GHz	

Material And Plating

Piece Parts (Precision N)	Material	Plating
Centre Contact	Phosphor Bronze	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling Nut	Brass	Nickel
Piece Parts (Precision TNC)	**Material**	**Plating**
Centre Contact	Phosphor Bronze	Gold plating (Non-magnetic nickel-phosphorus underplating)
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. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:-
Date: SEP/10/2025

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

Precision N Plug (Male) to Precision TNC Jack (Female) Straight Adapter, DC-18 GHz, VSWR 1.2

AD-PCN1PCT25B / H33-H3

Mechanical Data

	Precision N Side	Precision TNC Side
Coupling mechanisms	Screw-On	Screw-On
Mating Cycles	≥ 500	≥ 500
Center Contact Captivation: axial	≥ 28 N	≥ 28 N
Coupling Test Torque	max. 1.7 Nm	max. 1.7 Nm
Recommended Torque	1.0 Nm	0.46 Nm to 0.69 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. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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