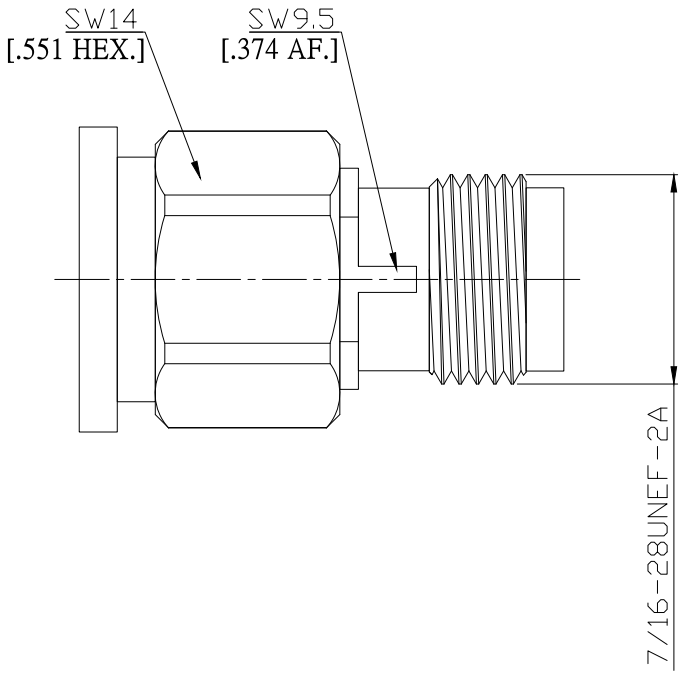
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

Precision TNC plug (male) to Precision TNC jack (female) Adapter DC-18GHz VSWR1.35

AD-PCT1PCT25B / 9XX-9X



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

Interface

Precision TNC according to	IEC 60169-26; MIL-C-39012A

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.35 (≥ 16.5 dB)
Insertion Loss	≤ 0.04 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 0.2 mΩ
Working Voltage	≤ 500 V rms
Dielectric Withstanding Voltage	≤ 1500 V rms
RF leakage	< -50dB @ 2GHz, < -45dB @ 8GHz

Material And Plating

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

Precision TNC plug (male) to Precision TNC jack (female) Adapter DC-18GHz VSWR1.35

AD-PCT1PCT25B / 9XX-9X

Mechanical Data	
Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center Contact Captivation	≥ 27 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.46 Nm to 0.69 Nm
Environmental Data	
Temperature Range	-65°C to +160°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 D
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant
Packing	
	Single or 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