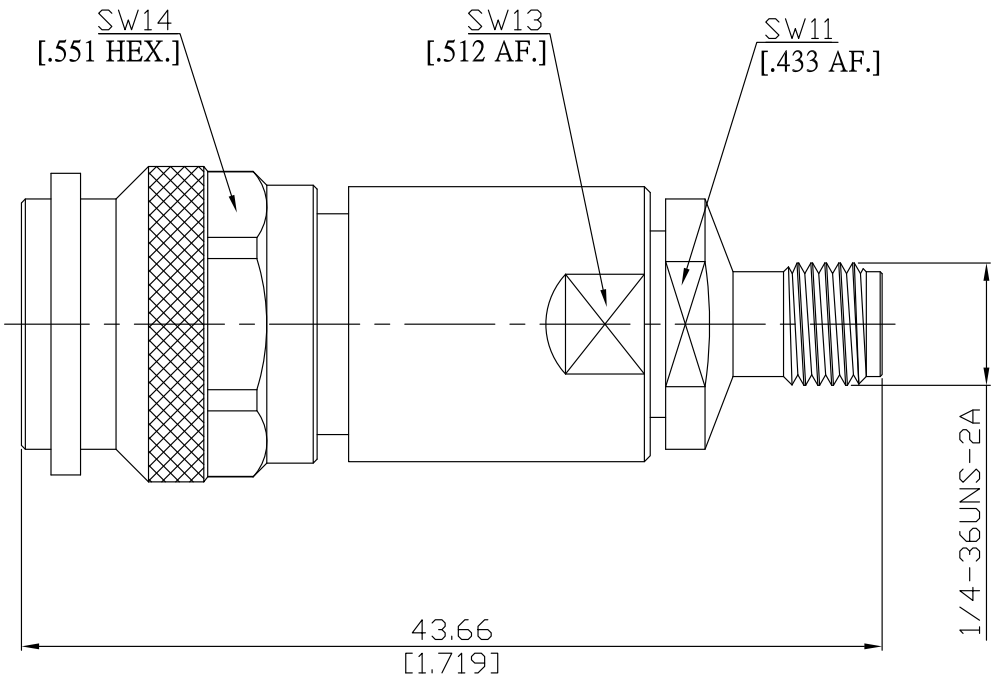
ROSNOL RF/Microwave Interconnect

Technical Data Sheet

Precision TNC plug (male) to SMA jack (female) Adapter
DC-18GHz VSWR1.25

AD-PCT1A25A / 944-94



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

Interface

Precision TNC according to	IEC 60169-26; MIL-STD-348B/313
SMA according to	IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion Loss	≤ 0.1 x √F (GHz) dB

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	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE/PS	
Gasket	Silicone rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (SMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
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

Precision TNC plug (male) to SMA jack (female) Adapter DC-18GHz VSWR1.25

AD-PCT1A25A / 944-94

Mechanical Data

	Precision TNC Side	SMA Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center Contact Captivation	≥ 27 N	≥ 27 N
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	0.46 Nm to 0.69 Nm	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-55°C to +100°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

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