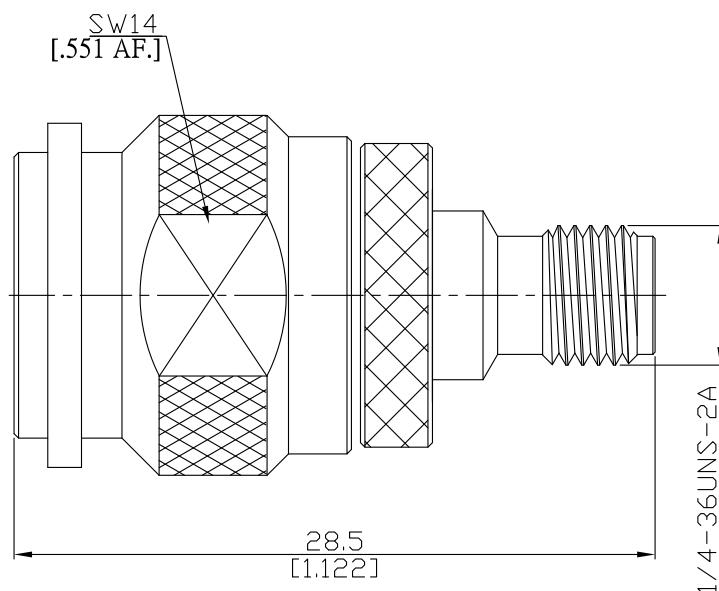


TNC R/P plug (male) / SMA jack (female)  
Adapter DC-18 GHz VSWR1.30

**AD-T5A25A / H44-H1**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

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

#### Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.30 (≥ 17.69 dB)
Insertion Loss	≤ 0.1 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ, R/P TNC side; ≤ 3 mΩ, SMA side
Outer contact resistance	≤ 1 mΩ, R/P TNC side; ≤ 2 mΩ, SMA side
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling	≤ 80 W @ 2 GHz

#### Material And Plating

Piece Parts (TNC)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (SMA)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Insulator	PTFE	

TNC R/P plug (male) / SMA jack (female)  
Adapter DC-18 GHz VSWR 1.30

## AD-T5A25A / H44-H1

## Mechanical Data

Coupling mechanisms	TNC R/P Side	SMA Side
Mating Cycles	Screw-lock	Screw-lock
Coupling nut retention	min. 500	min. 500
Center contact captivation: axial	N/A	≥ 270 N
Coupling test torque	≥ 28 N	≥ 27 N
Recommended torque	max. 1.7 Nm	max. 1.7 Nm
	0.46 Nm to 0.69 Nm	0.8 Nm to 1.1 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. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

## Packing

Single or 100