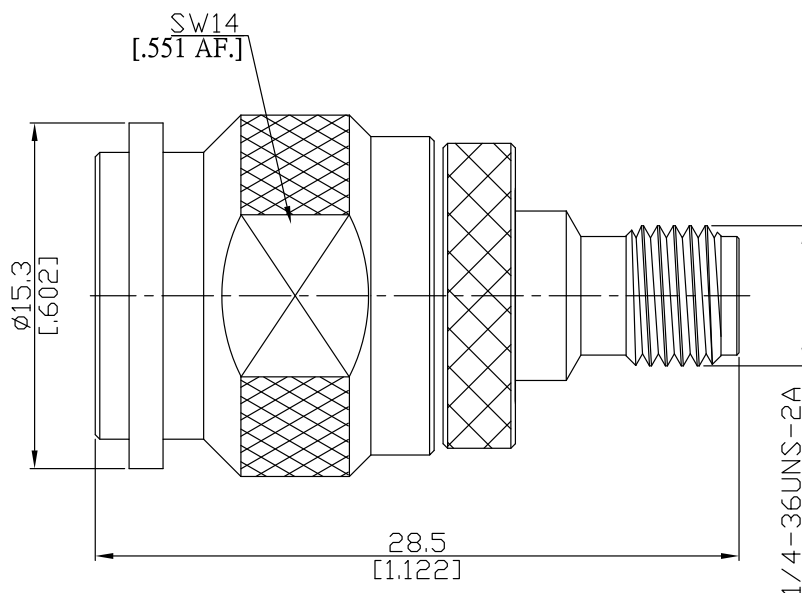


TNC plug (male) / SMA jack (female)  
Adapter DC-11 GHz VSWR1.25

**AD-T1A25A / 9XX-9X**



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  $\Omega$

Frequency

DC to 11 GHz

VSWR (Return Loss)

$\leq 1.25 (\geq 19.08 \text{ dB})$

Insertion Loss

$\leq 0.1 \times \sqrt{F} \text{ (GHz) dB}$

Insulation resistance

$\geq 5 \text{ G}\Omega$

Center contact resistance

$\leq 3 \text{ m}\Omega$ , SMA side;

$\leq 1.5 \text{ m}\Omega$ , TNC side

Outer contact resistance

$\leq 2 \text{ m}\Omega$ , SMA side;

$\leq 1 \text{ m}\Omega$ , TNC side

Test voltage

1000 V rms

Working voltage

480 V rms

Power handling

$\leq 80 \text{ W @ 2 GHz}$

**Material And Plating**

Piece Parts (TNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	

TNC plug (male) / SMA jack (female)  
Adapter DC-11 GHz VSWR1.25

**AD-T1A25A / 9XX-9X**

**Mechanical Data**

	TNC Side	SMA Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	min. 500	min. 500
Coupling nut retention	N/A	≥ 270 N
Center contact captivation: axial	≥ 28 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	-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