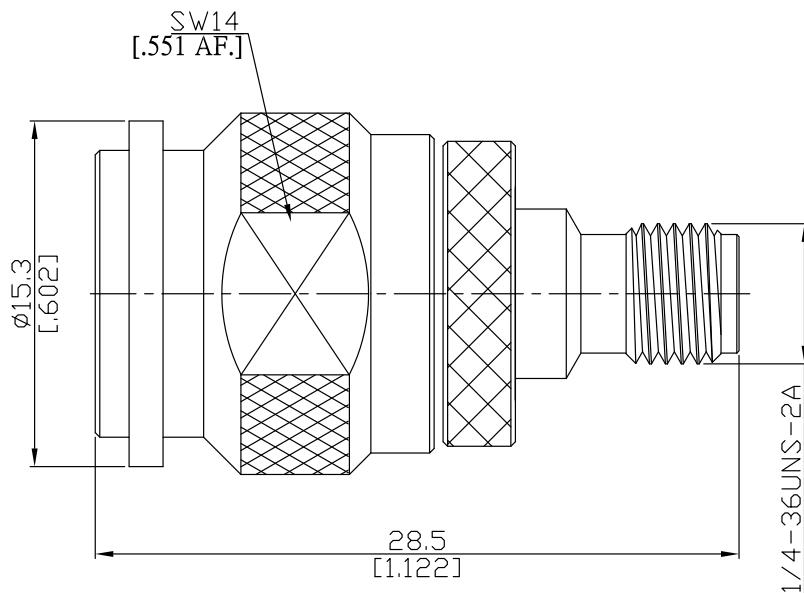


TNC plug (male) / SMA jack (female)  
Adapter DC-11 GHz VSWR1.25

**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 Ω

Frequency

DC to 11 GHz

VSWR (Return Loss)

≤ 1.25 (≥ 19.08 dB)

Insertion Loss

≤ 0.1 x √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ, SMA side;

≤ 1.5 mΩ, TNC side

Outer contact resistance

≤ 2 mΩ, SMA side;

≤ 1 mΩ, TNC 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

Beryllium Copper

Gold plating, 3 pinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

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 µinch)

Body

Stainless Steel

Passivated

Insulator

PTFE

TNC plug (male) / SMA jack (female)  
Adapter DC-11 GHz VSWR 1.25

## AD-T1A25A / 9XX-9X

## Mechanical Data

Coupling mechanisms	TNC 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