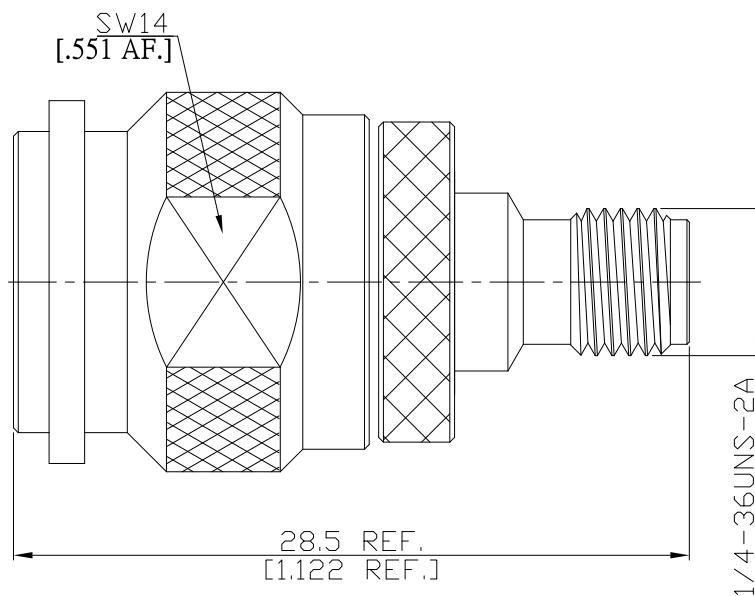


TNC plug (male) / SMA jack (female)  
Adapter DC-18 GHz VSWR1.30

**AD-T1A25A / 144-H4**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

TNC side according to

IEC 61169-17;CECC 22 200;MIL-PRF-39012;TNC-Interface MIL-STD-348/313

SMA side according to

IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310

#### Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.30 (≥ 17.69 dB)

Insertion Loss

≤ 0.04 x √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 1.5 mΩ, TNC side

≤ 3 mΩ, SMA side

Outer contact resistance

≤ 1 mΩ, 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

Brass

Gold plating, 3 pinch  
(Non-magnetic nickel-phosphorus underplating, 100 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 pinch  
(Non-magnetic nickel-phosphorus underplating, 100 μinch)

Body

Brass

Copper-Tin-Zinc Alloy

Insulator

PTFE

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

## AD-T1A25A / 144-H4

## 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	≥ 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 +155°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