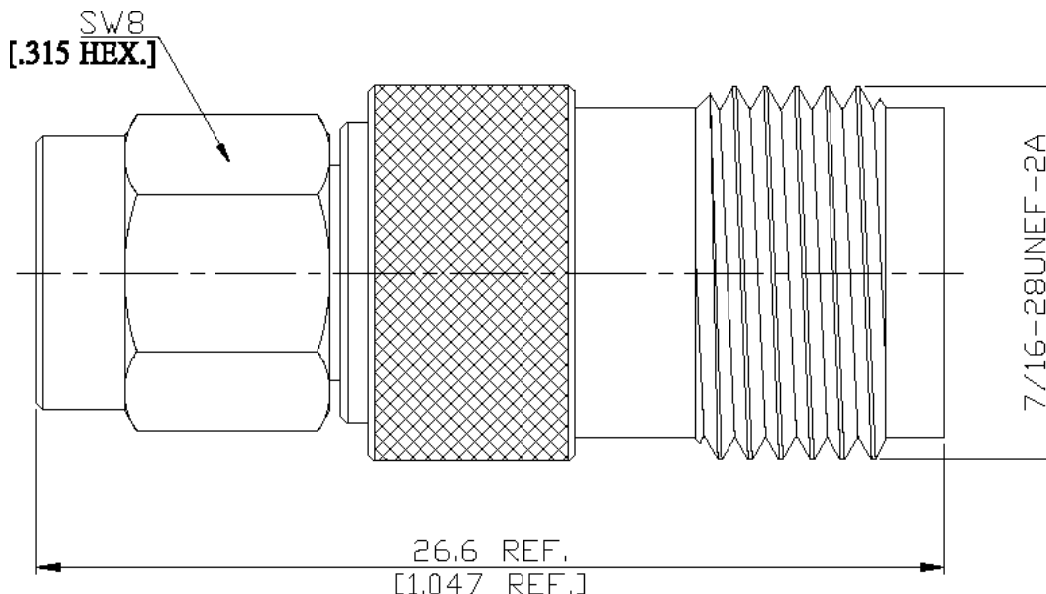


SMA plug (male) / TNC jack (female) Adaptors Straight DC-11 GHz VSWR1.20

**AD-A1T25B / 933-93**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

IEC 60169-15; MIL-STD-348B/310

TNC according to

IEC 60169-17; MIL-STD-348B/313

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 11 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.83 dB)

Insertion Loss

≤ 0.03 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 (at sea level)

480 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0)

≤ 80 W @ 2 GHz

Dielectric withstanding Voltage

1500 V min

RF leakage

< -50dB @ 2GHz, < -45 dB @ 8GHz

**Material And Plating**

| Piece Parts (SMA) | Material         | Plating                                                                          |
|-------------------|------------------|----------------------------------------------------------------------------------|
| Centre contact    | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body              | Brass            | Nickel                                                                           |
| Insulator         | PTFE             |                                                                                  |
| Gasket            | Silicone Rubber  |                                                                                  |
| Coupling nut      | Brass            | Nickel                                                                           |
| Piece Parts (TNC) | Material         | Plating                                                                          |
| Centre contact    | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body              | Brass            | Nickel                                                                           |
| Insulator         | PTFE             |                                                                                  |



SMA plug (male) / TNC jack (female) Adaptors Straight DC-11 GHz VSWR1.20

## AD-A1T25B / 933-93

### Mechanical Data

|                                   | SMA side    | TNC side           |
|-----------------------------------|-------------|--------------------|
| Coupling mechanisms               | Screw-lock  | Screw-lock         |
| Mating Cycles                     | min. 500    | min. 500           |
| Coupling nut retention            | ≥ 27 N      | N/A                |
| Center Contact Captivation: axial | ≥ 3 Ncm     | ≥ 27 N             |
| Coupling Test Torque              | 1.7 Nm max. | max. 1.7 Nm        |
| Recommended Torque                | 0.9 Nm      | 0.46 Nm to 0.69 Nm |

### Environmental Data

|                     |                                 |
|---------------------|---------------------------------|
| Temperature Range   | -65°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