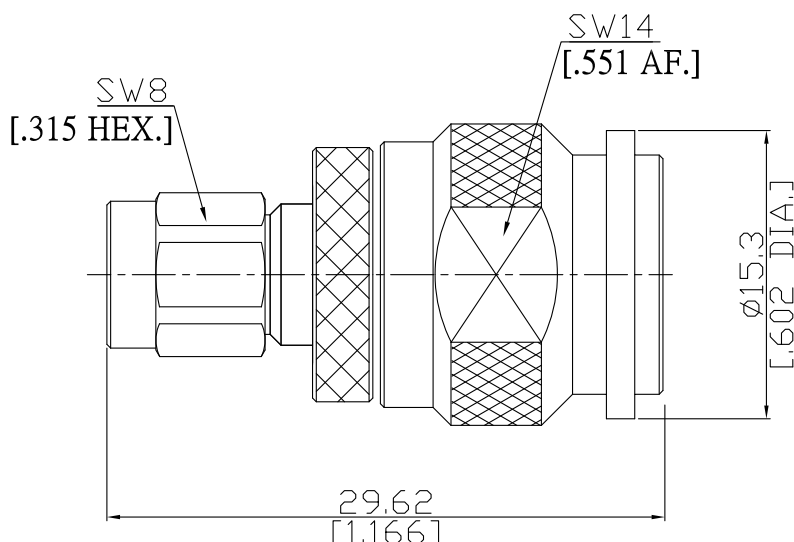


SMA plug (male) / TNC plug (male)  
Adapter DC-11 GHz VSWR1.20

**AD-A1T15A / H11-H44**



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

≤ 0.04 x √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ, SMA Side

≤ 1.5 mΩ, TNC side

Outer Contact Resistance

≤ 2.0 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 (SMA) |  | Material        | Plating                                                                          |
|-------------------|--|-----------------|----------------------------------------------------------------------------------|
| Centre contact    |  | Phosphor Bronze | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body              |  | Brass           | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Insulator         |  | PTFE            |                                                                                  |
| Gasket            |  | Silicone Rubber |                                                                                  |
| Coupling nut      |  | Brass           | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Piece Parts (TNC) |  | Material        | Plating                                                                          |
| Centre contact    |  | Phosphor Bronze | Gold plating, 3 μinch<br>(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                                                            |

SMA plug (male) / TNC plug (male)  
Adapter DC-11 GHz VSWR1.20

**AD-A1T15A / H11-H44**

**Mechanical Data**

|                                   | SMA Side         | TNC Side           |
|-----------------------------------|------------------|--------------------|
| Coupling mechanisms               | Screw-lock       | Screw-lock         |
| Mating Cycles                     | ≥ 500            | ≥ 500              |
| Coupling nut retention            | ≥ 270 N          | N/A                |
| Center contact captivation: axial | ≥ 27 N           | ≥ 27 N             |
| Coupling test torque              | max. 1.7 Nm      | max. 1.7 Nm        |
| Recommended torque                | 0.8 Nm to 1.1 Nm | 0.46 Nm to 0.69 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