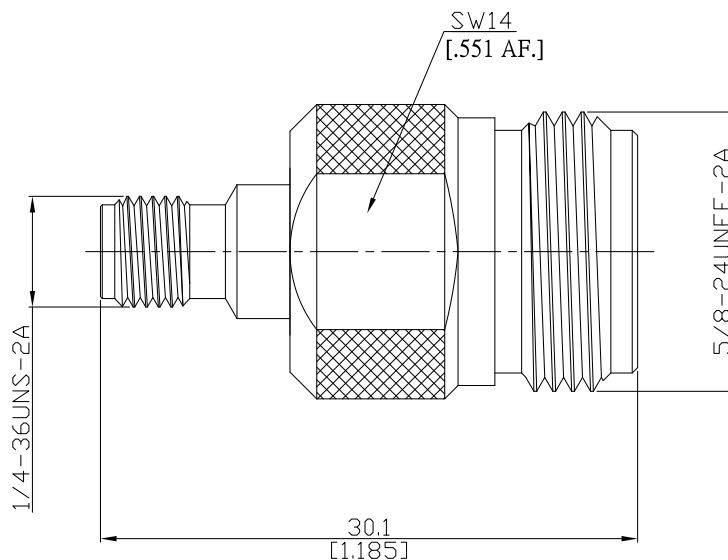


SMA jack (female) to N jack (female)  
Straight adaptor DC-12GHz VSWR 1.15

**AD-A2N25A / 91-93**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

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

N according to

IEC 60169-16; MIL-STD-348B/304

**Electrical Data**

Impedance

50  $\Omega$

Frequency

DC to 12 GHz

VSWR (Return Loss)

$\leq 1.15$  ( $\geq 23.13$  dB)

Insertion Loss

$\leq 0.05 \times \sqrt{F}$  (GHz) dB

Insulation resistance

$\geq 5$  G $\Omega$

Center contact resistance

$\leq 1$  m $\Omega$ , N side

$\leq 3$  m $\Omega$ , SMA side

Outer contact resistance

$\leq 0.25$  m $\Omega$ , N side

$\leq 2$  m $\Omega$ , SMA side

Test voltage

1000 V rms

Working voltage

480 V rms

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

$\leq 200$  W @ 2 GHz

RF-leakage

$\geq 100$  dB up to 1 GHz

**Material And Plating**

| Piece Parts (SMA) | Material         | Plating                                                                                    |
|-------------------|------------------|--------------------------------------------------------------------------------------------|
| Centre contact    | Beryllium Copper | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body              | Brass            | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Insulator         | PTFE             |                                                                                            |
| Piece Parts (N)   | Material         | Plating                                                                                    |
| Centre contact    | Beryllium Copper | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body              | Brass            | Nickel                                                                                     |
| Insulator         | PTFE             |                                                                                            |

SMA jack (female) to N jack (female)  
Straight adaptor DC-12GHz VSWR 1.15

**AD-A2N25A / 91-93**

**Mechanical Data**

|                                   | SMA side           | N side             |
|-----------------------------------|--------------------|--------------------|
| Coupling mechanisms               | Screw-lock         | Screw-lock         |
| Mating cycles                     | min. 500           | min. 500           |
| Center contact captivation: axial | ≥ 28 N             | ≥ 28 N             |
| Coupling test torque              | 1.70 Nm            | 1.70 Nm            |
| Recommended torque                | 0.80 Nm to 1.10 Nm | 0.70 Nm to 1.10 Nm |

**Environmental Data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature Range   | -5°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