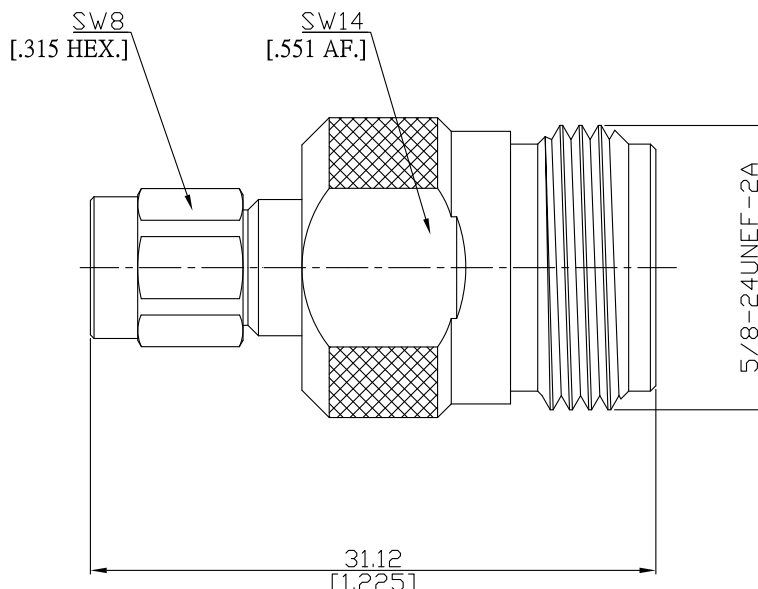


SMA plug (male) / Precision N jack (female)  
Straight adaptor DC-18GHz VSWR 1.15

**AD-A1PCN25B / 911-9X**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

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

Precision N according to

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

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.1 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ, SMA side;

≤ 1 mΩ, Precision N side

Outer contact resistance

≤ 2 mΩ, SMA side;

≤ 0.25 mΩ, Precision N side

Test voltage

1000 V rms

Working voltage

480 V rms

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

≤ 200 W @ 2 GHz

RF-leakage

≥ 100 dB up to 1 GHz

**Material And Plating**

| Piece Parts (SMA)         | Material         | Plating                                                                          |
|---------------------------|------------------|----------------------------------------------------------------------------------|
| Centre contact            | Beryllium Copper | 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 (Precision N) | Material         | Plating                                                                          |
| Centre contact            | Beryllium Copper | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body                      | Stainless Steel  | Passivated                                                                       |
| Insulator                 | PTFE             |                                                                                  |

SMA plug (male) / Precision N jack (female)  
Straight adaptor DC-18GHz VSWR 1.15

**AD-A1PCN25B / 911-9X**

**Mechanical Data**

|                                   | SMA side           | Precision 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