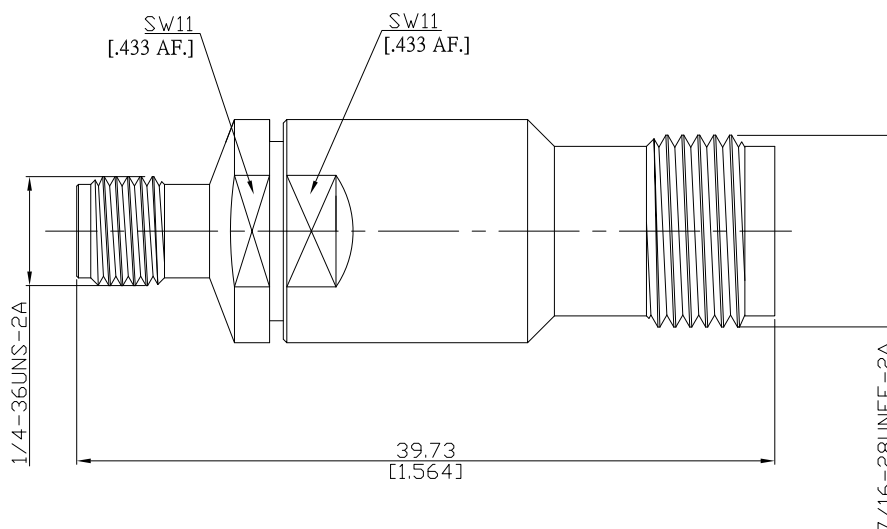


SMA jack (female) / Precision TNC jack (female)  
Straight adaptor DC-18GHz VSWR 1.20

**AD-A2PCT25A / 94-94**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

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

Precision TNC according to

IEC 60169-26; MIL-STD-348A/313

**Electrical Data**

Impedance

50  $\Omega$

Frequency

DC to 18 GHz

VSWR (Return Loss)

$\leq 1.20$  ( $\geq 20.8$  dB)

Insertion Loss

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

Insulation resistance

$\geq 5$  G $\Omega$

Center contact resistance

$\leq 3.0$  m $\Omega$ , SMA side;

$\leq 1.5$  m $\Omega$ , Precision TNC side

Outer contact resistance

$\leq 2.0$  m $\Omega$ , SMA side;

$\leq 1.0$  m $\Omega$ , Precision TNC side

Test voltage

1000 V rms

Working voltage

480 V rms

RF-leakage

$\geq 90$  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            | Copper-Tin-Zinc Alloy                                                                      |
| Insulator                   | PTFE             |                                                                                            |
| Piece Parts (Precision TNC) | Material         | Plating                                                                                    |
| Centre contact              | Beryllium Copper | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body                        | Brass            | Copper-Tin-Zinc Alloy                                                                      |
| Insulator                   | PTFE             |                                                                                            |

SMA jack (female) / Precision TNC jack (female)  
Straight adaptor DC-18GHz VSWR 1.20

# AD-A2PCT25A / 94-94

## Mechanical Data

|                                   | SMA side           | Precision TNC side |
|-----------------------------------|--------------------|--------------------|
| Coupling mechanisms               | Screw-lock         | Screw-lock         |
| Mating cycles                     | min. 500           | min. 500           |
| Center contact captivation: axial | ≥ 27 N             | ≥ 27 N             |
| Coupling test torque              | max. 1.7 Nm        | max. 1.7 Nm        |
| Recommended torque                | 0.80 Nm to 1.10 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