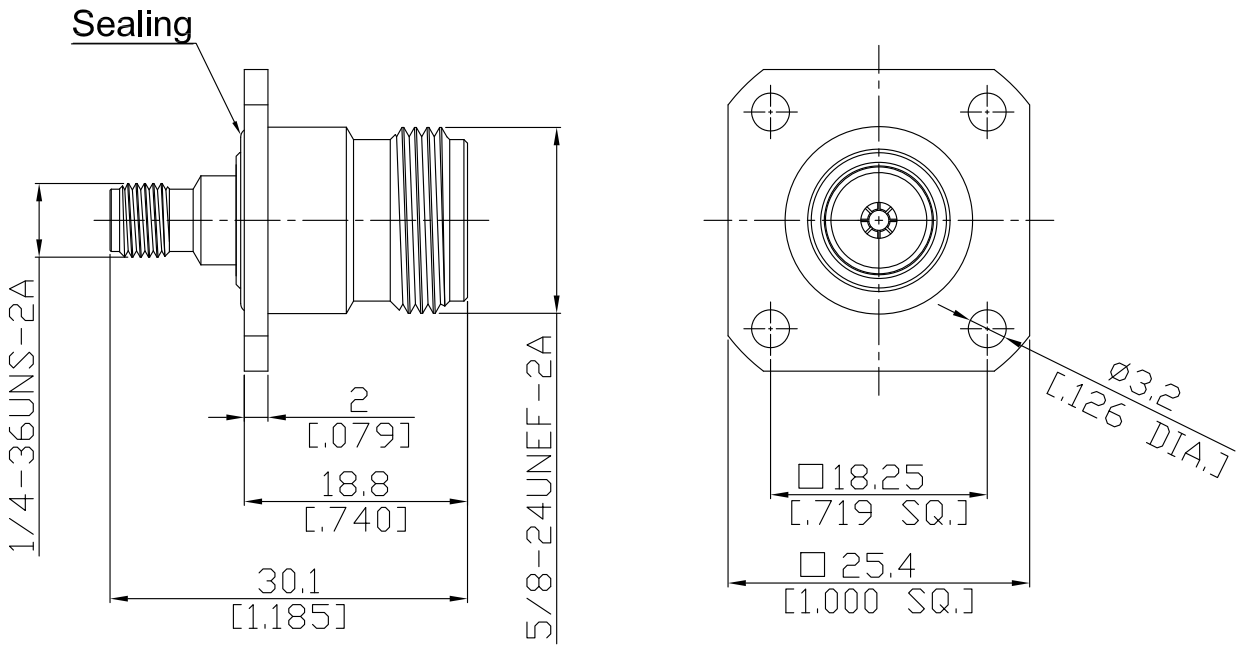
ROSNOL
RF/Microwave Interconnect

# Technical Data Sheet

## SMA jack (female)/Precision N jack(female)
## 4 Hole Panel Flange Adaptor, DC-18 GHz, VSWR ≤ 1.2

# AD-A2PCN25A-PF / 91-94




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 61169-16; MIL-STD-348B/402 |

## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| VSWR (Return Loss) | ≤ 1.2 (≥ 20.83 dB) |
| Insertion loss | ≤ 0.04 x √F (GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Test voltage (at sea level) | 1000 V rms |
| Working voltage (at sea level) | 480 V rms |
| RF-leakage | ≥ 90 dB up to 1 GHz |

## Material And Plating

| Piece Parts (SMA) | Material | Plating |
|---|---|---|
| Centre contact | Beryllium Copper | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator | PTFE | |
| **Piece Parts (Precision N)** | **Material** | **Plating** |
| Centre contact | Beryllium Copper | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |
| Gasket | Silicone Rubber | |





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## 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 | max. 1.7 Nm | max. 1.7 Nm |
| Recommended torque | 0.80 Nm to 1.10 Nm | 0.70 Nm to 1.10 Nm |

## Environmental Data

| | |
|---|---|
| Temperature Range | -65°C to +165°C |
| Thermal shock | IEC 61169-1, Subclause 9.4.4 |
| Corrosion | IEC 61169-1, Subclause 9.4.6 |
| Vibration | IEC 61169-1, Subclause 9.3.3 |
| Shock | IEC 61169-1, Subclause 9.3.14 |
| Moisture resistance | IEC 61169-1, Subclause 9.4.3 |
| RoHS | compliant |

## Packing

Singleor 100





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