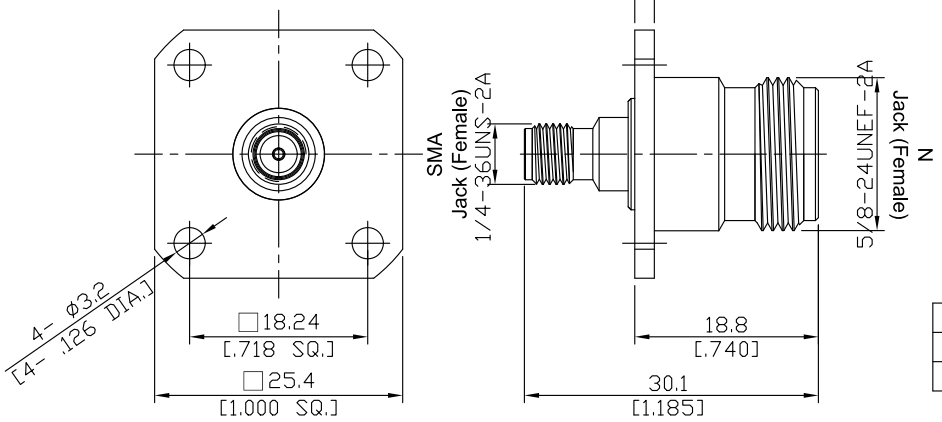
ROSNOL®
RF/Microwave Interconnect

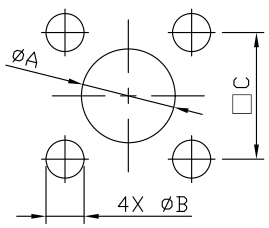
# Technical Data Sheet

## SMA Jack (Female) to N Jack (Female) 4 Hole Flange Mount Adapter, DC-11GHz, VSWR 1.15

# AD-A2N25A-PF / 99-94




Mounting Dimension




| | mm | | inch | |
|---|---|---|---|---|
| | Max. | Min. | Max. | Min. |
| A | 16.3 | 16.1 | .642 | .634 |
| B | 3.30 | 3.20 | .130 | .126 |
| C | 18.35 | 18.15 | .722 | .715 |

All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

## Interface

| | |
|---|---|
| SMA according to | IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110 |
| N according to | IEC 60169-16; MIL-STD-348B/304; CECC 22210; MIL-PRF-39012 |

## Electrical Data

| | | |
|---|---|---|
| Impedance | 50 Ω | |
| Frequency | DC to 11 GHz | |
| VSWR (Return Loss) | ≤ 1.15 (≥ 23.13 dB) | |
| Insertion Loss | ≤ 0.04 x √F (GHz) dB | |
| Insulation Resistance | ≥ 5 GΩ | |
| Center Contact Resistance | ≤ 3 mΩ, SMA side | ≤ 1 mΩ, N side |
| Outer Contact Resistance | ≤ 2 mΩ, SMA side | ≤ 0.25 mΩ, 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 (Non-magnetic nickel-phosphorus underplating) |
| Body | Beryllium Copper | Gold plating (Non-magnetic nickel-phosphorus underplating) |
| Insulator | PTFE | |
| **Piece Parts (N)** | **Material** | **Plating** |
| Centre contact | Beryllium Copper | Gold plating (Non-magnetic nickel-phosphorus underplating) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |





Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

ROSNOL®
RF/Microwave Interconnect

# Technical Data Sheet

## SMA Jack (Female) to N Jack (Female) 4 Hole Flange Mount Adapter, DC-11GHz, VSWR 1.15

# AD-A2N25A-PF / 99-94

## Mechanical Data

| | SMA side | N side |
|---|---|---|
| Coupling mechanisms | Screw-lock | Screw-lock |
| Mating cycles | min. 500 | min. 500 |
| Coupling nut retention | ≥ 270 N | ≥ 450 N |
| Center contact captivation: axial | ≥ 28 N | ≥ 28 N |
| Coupling test torque | max. 1.70 Nm | max. 1.70 Nm |
| Recommended torque | 0.57 Nm | 1.0 Nm |

## Environmental Data

| | |
|---|---|
| Temperature Range | -65°C to +165°C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture Resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |

## Packing

Single or 100





Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified