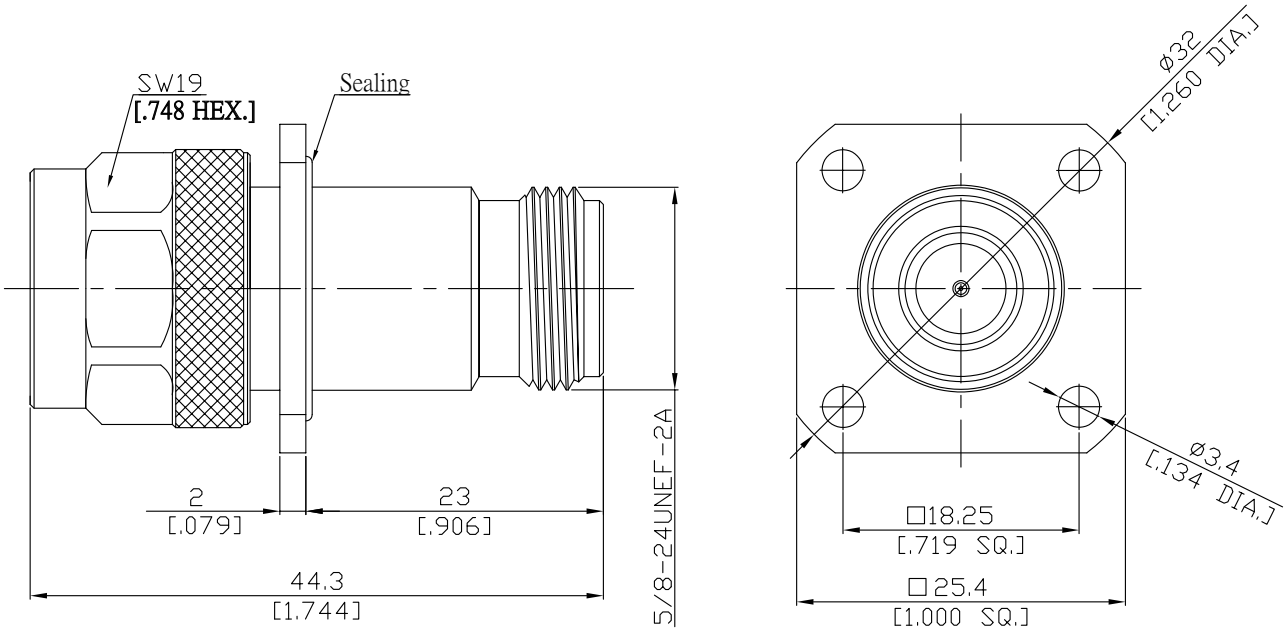
ROSNOL®
RF/Microwave Interconnect

# Technical Data Sheet

## N plug (male) to N Jack (Female)
## Panel 4 Hole Flange Mount Adapter DC-11GHz VSWR1.15

# AD-N1N25A-PF / H44-H4




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

## Interface

| | |
|---|---|
| According to | IEC 61169-16, MIL-STD-348B/304 |

## Electrical Data

| | | |
|---|---|---|
| Impedance | 50 Ω | |
| Frequency | DC to 11 GHz | |
| VSWR (Return Loss) | ≤ 1.15 (≥ 23.13 dB) | |
| Insertion Loss | ≤ 0.1 x √F (GHz) dB | |
| Insulation Resistance | ≥ 5 GΩ | |
| Center contact resistance | ≤ 1 mΩ | |
| Outer contact resistance | ≤ 0.25 mΩ | |
| Working Voltage (at sea level) | 500 V rms | |
| Power Handling | 1000 W @ 1 GHz | 700 W @ 2 GHz |
| RF Leakage | ≥ 128 dB up to 1 GHz | |

## Material And Plating

| Piece Parts (N male) | Material | Plating |
|---|---|---|
| Centre contact | Phosphor Bronze | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |
| Gasket | Silicone Rubber | |
| Coupling nut | Brass | Copper-Tin-Zinc Alloy |
| **Piece Parts (N female)** | **Material** | **Plating** |
| Centre contact | Phosphor Bronze | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |





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# N plug (male) to N Jack (Female)
# Panel 4 Hole Flange Mount Adapter DC-11GHz VSWR1.15

# AD-N1N25A-PF / H44-H4

| Mechanical Data | |
|---|---|
| Coupling mechanisms | Screw-lock |
| Mating Cycles | min. 500 |
| Coupling nut retention | ≥ 450 N |
| Center contact captivation: axial | ≥ 28 N |
| Coupling Test Torque | max. 1.7 Nm |
| Recommended Torque | 0.7 Nm to 1.1 Nm |
| **Environmental Data** | |
| Temperature Range | -55°C to +155°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 B |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture Resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |
| **Packing** | |
| | Single or 100 |





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