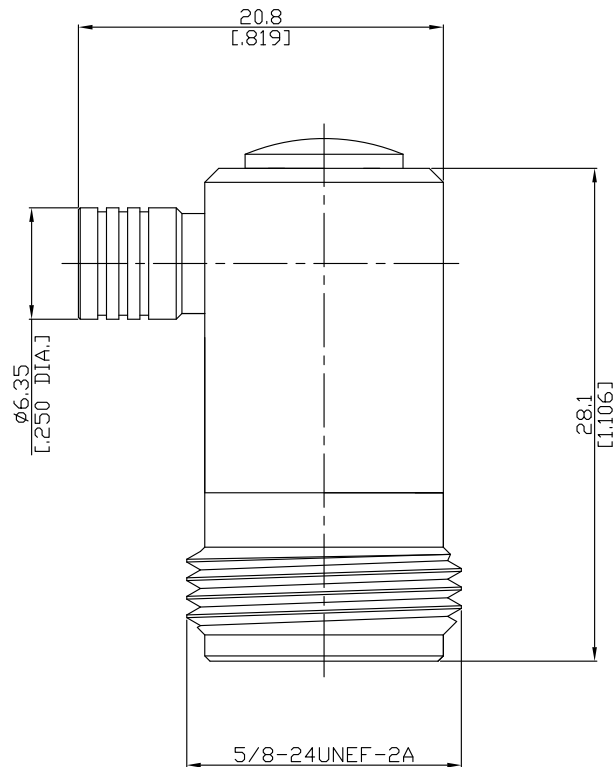


SMB plug (male) / N jack (female) L-adaptor DC-4 GHz VSWR ≤ 1.17

## ADL-S1N25A / H91-H4



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

SMB according to

IEC 60169-10; MIL-STD-348B/311

N according to

IEC 61169-16; MIL-STD-348B/304

### Electrical Data

Impedance

50 Ω

Frequency

DC to 4 GHz

VSWR

≤ 1.17 (≥ 22 dB)

Insertion loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 1 GΩ

Center contact resistance

≤ 5 mΩ, SMB side

≤ 1 mΩ, N side

Outer contact resistance

≤ 2.5 mΩ, SMB side

≤ 0.25 mΩ, N side

Test voltage

750 V rms, 50 Hz, at sea level

Working voltage

≤ 250 V rms, 50 Hz, at sea level

Contact current

1.5 A DC typ.

RF-leakage

≥ 55 dB up to 1 GHz

SMB plug (male) / N jack (female) L-adaptor DC-4 GHz VSWR $\leq$  1.17

## ADL-S1N25A / H91-H4

### Material And Plating

| Piece Parts (SMB) | Material         | Plating                                                                                    |
|-------------------|------------------|--------------------------------------------------------------------------------------------|
| Centre contact    | Phosphor Bronze  | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body              | Beryllium Copper | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Insulator         | PTFE             |                                                                                            |
| Coupling nut      | Brass            | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Piece Parts (N)   | Material         | Plating                                                                                    |
| Centre contact    | Phosphor Bronze  | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body              | Brass            | Copper-Tin-Zinc Alloy                                                                      |
| Insulator         | PTFE             |                                                                                            |

### Mechanical Data

|                                   |                       |                  |
|-----------------------------------|-----------------------|------------------|
| Coupling mechanisms               | SMB side              | N side           |
| Mating cycles                     | Snap-lock             | Screw-lock       |
| Center contact captivation: axial | min. 500              | min. 500         |
| Engagement force                  | $\geq$ 10N            | $\geq$ 10N       |
| Disengagement force               | $\geq$ 63 N           | N/A              |
| Coupling test torque              | 8 N min. to 63 N max. | N/A              |
| Recommended torque                | N/A                   | max. 1.7 Nm      |
|                                   |                       | 0.7 Nm to 1.1 Nm |

### Environmental Data

|                     |                                 |
|---------------------|---------------------------------|
| Temperature Range   | -55°C to +155°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

### Packing

Single or 100