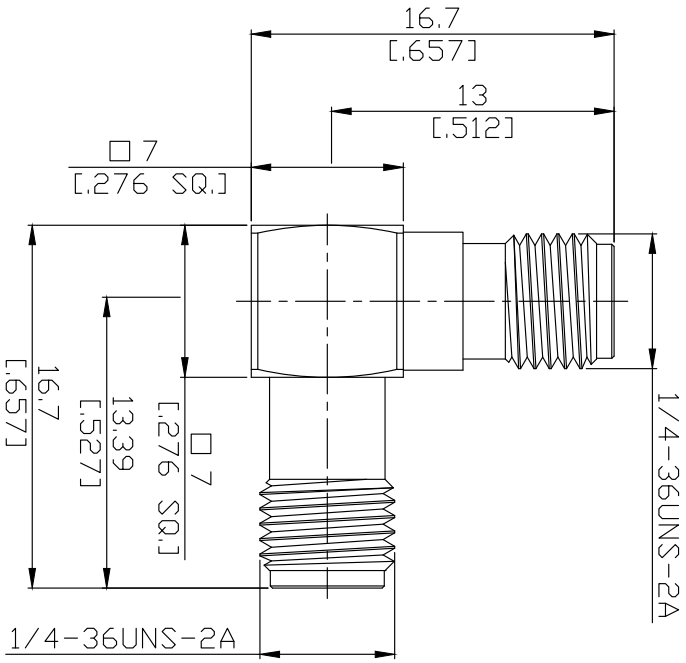
ROSNOL®
RF/Microwave Interconnect

# Technical Data Sheet

## SMA jack (female) / SMA jack (female)
## L-adaptor DC-18 GHz, VSWR ≤ 1.15

# ADL-A2A25A / H1-H1




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

## Interface

| | |
|---|---|
| according to | IEC 60169-15; MIL-STD-348B/310 |

## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| VSWR (Return Loss) | ≤ 1.15 (> 23.1 dB) |
| Insertion Loss | ≤ 0.03 x √F (GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 3 mΩ |
| Outer contact resistance | ≤ 2 mΩ |
| 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 | Phosphor Bronze | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Brass | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator | PTFE | |
| **Piece Parts (SMA)** | **Material** | **Plating** |
| Centre contact | Phosphor Bronze | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Brass | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator | PTFE | |





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# SMA jack (female) / SMA jack (female)
# L-adaptor DC-18 GHz, VSWR ≤ 1.15

# ADL-A2A25A / H1-H1

| Mechanical Data | |
|---|---|
| Coupling mechanisms | Screw-lock |
| Mating cycles | ≥ 500 |
| Center contact captivation: axial | ≥ 27 N |
| radial | ≥ 3 Ncm |
| Coupling test torque | max. 1.7 Nm |
| Recommended torque | 0.8 Nm to 1.1 Nm |
| **Environmental Data** | |
| Temperature Range | -55°C to +155°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** | |
| | Singleor 100 |





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