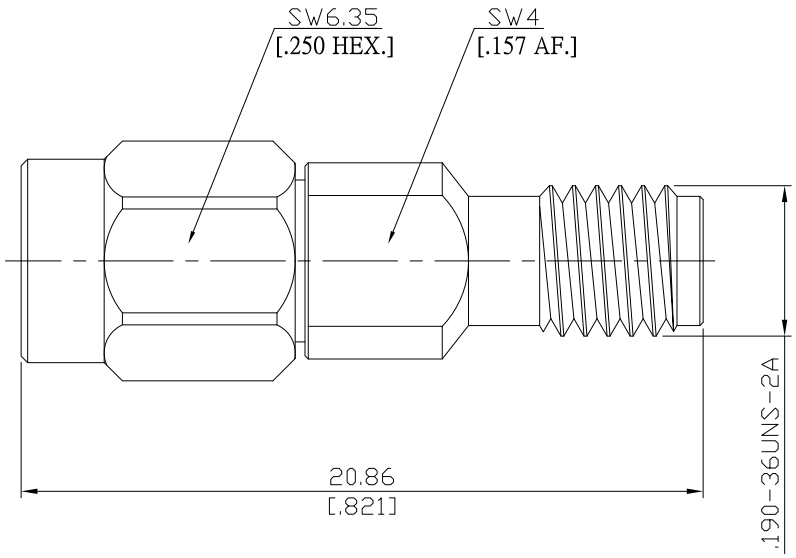
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

# SSMA plug (male) / SSMA jack (female) Straight Adaptor
# DC-18 GHz, VSWR ≤ 1.20

# AD-SA1SA25A / 911-91




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

## Interface

| | |
|---|---|
| according to | IEC 60169-15; MIL-STD-348B/319 |

## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| VSWR (Return Loss) | ≤ 1.20 (≥ 20.83 dB) |
| Insertion Loss | ≤ 0.05 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 | ≤ 200 W @ 2 GHz |
| RF-leakage | ≥ 100 dB up to 1 GHz |

## Material And Plating

| Piece Parts (SSMA) | Material | Plating |
|---|---|---|
| Centre contact | Beryllium Copper | 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 | |
| Gasket | Silicone Rubber | |
| Coupling nut | Brass | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| **Piece Parts (SSMA)** | **Material** | **Plating** |
| Centre contact | Beryllium Copper | 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 | |

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.



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N-CAGE Code: SFKK0 / ISO9001 Certified

# SSMA plug (male) / SSMA jack (female) Straight Adaptor
# DC-18 GHz, VSWR ≤ 1.22

# AD-SA1SA25A / 911-91

| Mechanical Data | |
|---|---|
| Coupling mechanisms | Screw-lock |
| Mating cycles | ≥ 500 |
| Center contact captivation: axial | ≥ 27 N |
| radial | ≥ 3 Ncm |
| Coupling test torque | ≤ 1.7 Nm |
| Recommended torque | 0.8 Nm to 1.1 Nm |
| **Environmental Data** | |
| Temperature Range | -65°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 D |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |
| **Packing** | |
| | Singleor 100 |

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