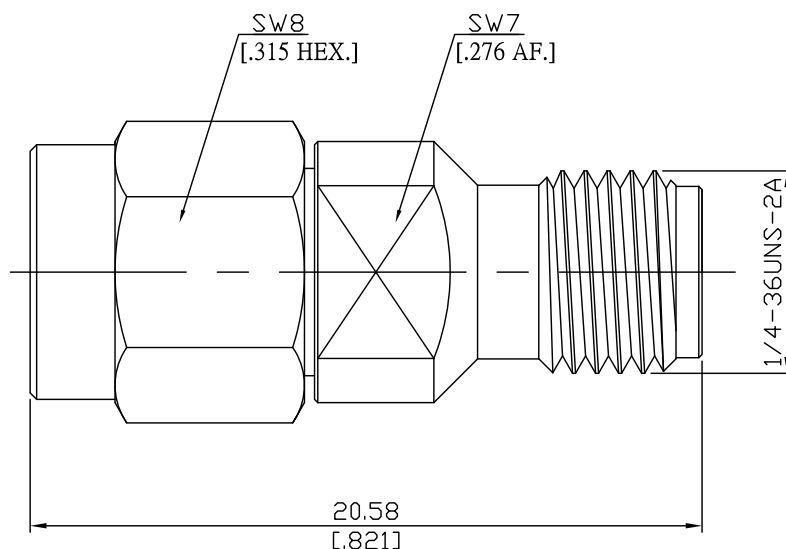


SMA pulg (male) / SMA jack (female) Straight Adaptor  
DC-18 GHz, VSWR ≤ 1.20

**AD-A1A25A / 9XX-9X**



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)                                           | ≤ 1.20 (≥ 20.83 dB)  |
| Insertion Loss                                               | ≤ 0.05 × √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 |
| Dielectric Withstanding Voltage                              | 1000 VRMS            |
| RF High Potential Withstanding Voltage:<br>(Tested at 5 MHz) | 760 VRMS             |

**Material And Plating**

| Piece Parts (SMA) | Material         | Plating                                                                          |
|-------------------|------------------|----------------------------------------------------------------------------------|
| Centre contact    | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body              | Stainless Steel  | Passivated                                                                       |
| Insulator         | PTFE             |                                                                                  |
| Gasket            | Silicone Rubber  |                                                                                  |
| Coupling nut      | Stainless Steel  | Passivated                                                                       |
| Piece Parts (SMA) | Material         | Plating                                                                          |
| Centre contact    | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body              | Stainless Steel  | Passivated                                                                       |
| 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.

Rev.:  
Date: JUL/16/2021

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

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SMA pulg (male) / SMA jack (female) Straight Adaptor  
DC-18 GHz, VSWR ≤ 1.22

**AD-A1A25A / 9XX-9X**

**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 +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