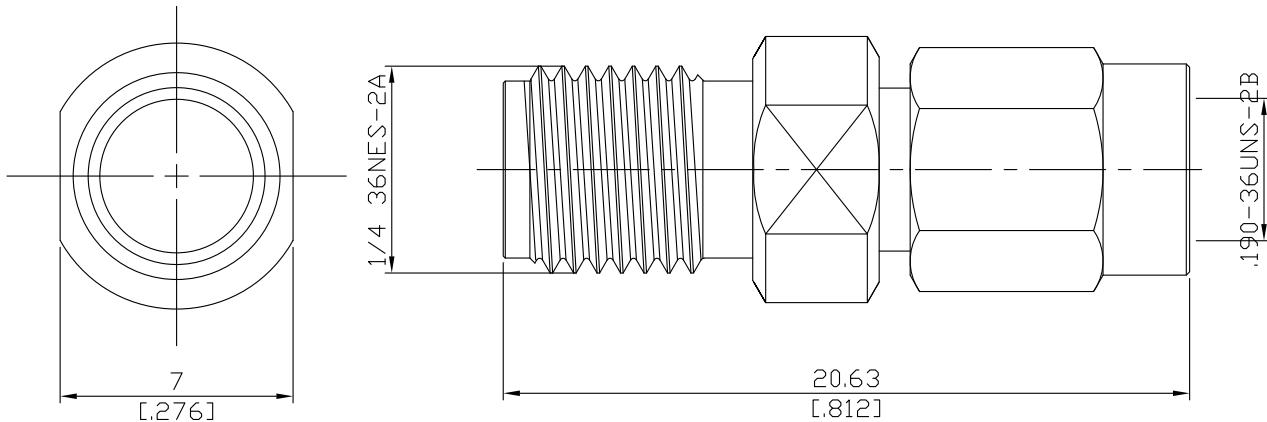


SSMA plug (male) / SMA jack (female)  
Adapter DC-18GHz VSWR1.20

**AD-SA1A25A / 911-91**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

SSMA according to

MIL-STD-348B/319

SMA 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 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ, SSMA Side

Outer Contact Resistance

≤ 3.0 mΩ, SSMA Side

Test Voltage (at sea level)

1000 V rms

Working Voltage (at sea level)

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

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Body

Brass

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Insulator

PTFE

Gasket

Silicone Rubber

Coupling nut

Brass

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

##### Piece Parts (SMA)

##### Material

##### Plating

Centre contact

Beryllium Copper

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Body

Brass

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Insulator

PTFE

SSMA plug (male) / SMA jack (female)  
Adapter DC-18GHz VSWR1.20

## AD-SA1A25A / 911-91

## Mechanical Data

Coupling mechanisms	SSMA Side	SMA Side
Mating Cycles	Screw-lock	Screw-lock
Center Contact Captivation: axial	≥ 500	≥ 500
radial	≥ 28 N	≥ 28 N
Coupling Test Torque	≥ 3 Ncm	≥ 3 Ncm
Recommended Torque	1.7 Nm max.	1.7 Nm max.
	0.9 Nm	0.9 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