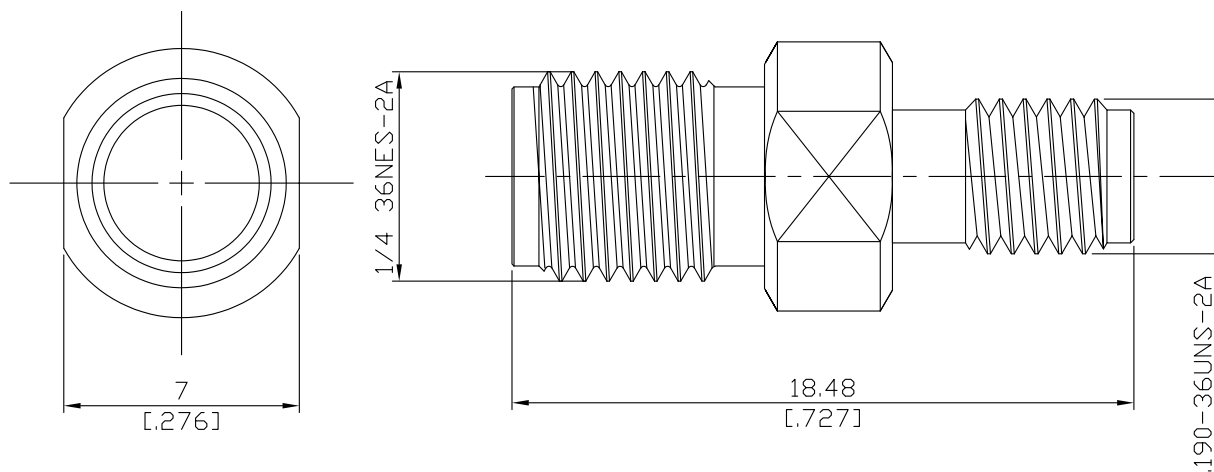


SMA jack (female) / SSMA jack (female)  
Adapter DC-18GHz VSWR1.20

**AD-A2SA25A / 91-91**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

SSMA according to

IEC 60169-15; MIL-STD-348B/310

MIL-STD-348B/319

**Electrical Data**

Impedance

50  $\Omega$

Frequency

DC to 18 GHz

VSWR (Return Loss)

$\leq 1.20$  ( $\geq 20$  dB)

Insertion Loss

$\leq 0.05 \times \sqrt{F}$  (GHz) dB

Insulation Resistance

$\geq 5$  G $\Omega$

Center Contact Resistance

$\leq 3.0$  m $\Omega$ , SMA Side

$\leq 3.0$  m $\Omega$ , SSMA Side

Outer Contact Resistance

$\leq 3.0$  m $\Omega$ , SMA Side

$\leq 3.0$  m $\Omega$ , SSMA Side

Test Voltage (at sea level)

1000 V rms

Working Voltage (at sea level)

480 V rms

Power handling

$\leq 200$  W @ 2 GHz

RF-leakage

$\geq 100$  dB up to 1 GHz

**Material And Plating**

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Insulator	PTFE	
Piece Parts (SSMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Insulator	PTFE	

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

**AD-A2SA25A / 91-91**

**Mechanical Data**

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