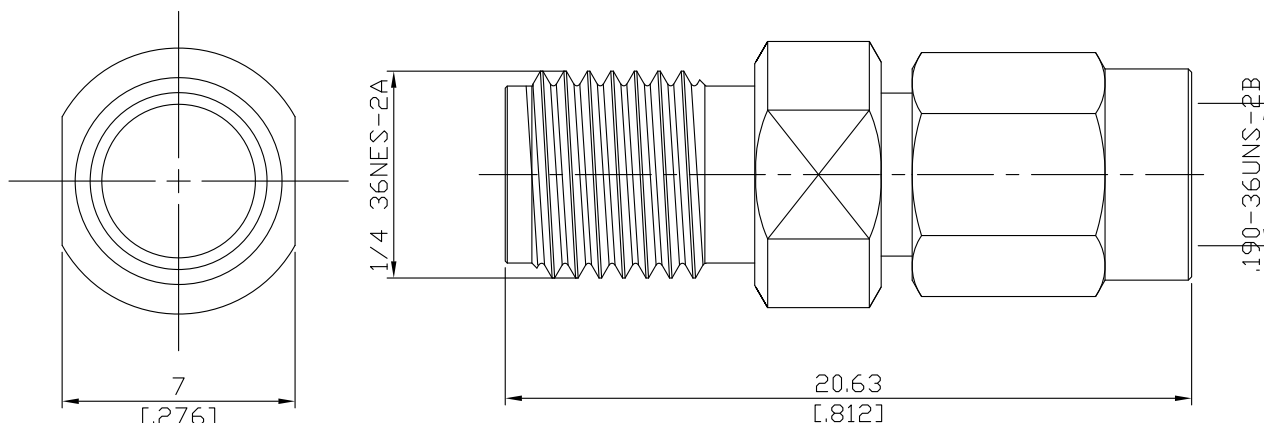


SSMA plug (male) / SMA jack (female)
Adapter DC-18GHz VSWR1.20

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 × √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ, SSMA Side

≤ 3.0 mΩ, SMA Side

Outer Contact Resistance

≤ 3.0 mΩ, SSMA Side

≤ 3.0 mΩ, SMA 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	

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Mechanical Data

	SSMA Side	SMA 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