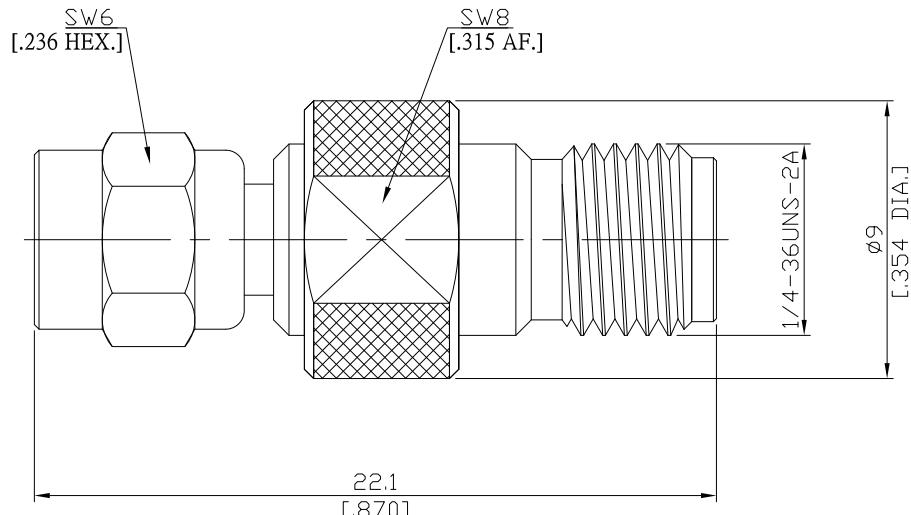


SMC plug (male) / SMA jack (female)  
Adapter DC-10 GHz VSWR1.35

## AD-MC1A25A / 911-91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

## Interface

SMC side according to

IEC 60169-9; MIL-STD-348B/312

SMA side according to

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

## Electrical Data

Impedance

50 Ω

Frequency

DC to 10 GHz

VSWR (Return Loss)

≤ 1.35 (≥ 16.54 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 1 GΩ

Center Contact Resistance

≤ 5 mΩ, SMC side

≤ 3 mΩ, SMA side

Outer Contact Resistance

≤ 2.5 mΩ, SMC side

≤ 2 mΩ, SMA side

Test voltage

750 V rms, 50 Hz, at sea level

Working voltage

≤ 250 V rms, 50 Hz, at sea level

RF-leakage

≥ 90 dB up to 1 GHz

## Material And Plating

## Piece Parts (SMC)

## 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

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

SMC plug (male) / SMA jack (female)  
Adapter DC-10 GHz VSWR 1.35

## AD-MC1A25A / 911-91

## Mechanical Data

Coupling mechanisms	SMC Side	SMA Side
Mating Cycles	Screw-lock	Screw-lock
Coupling nut retention	min. 500	min. 500
Coupling test torque	≥ 150 N	N/A
Recommended torque	max. 0.71 Nm	max. 1.7 Nm
Center contact captivation: axial	0.25 Nm to 0.35 Nm	0.8 Nm to 1.1 Nm
	≥ 10 N	≥ 10 N

## Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Moisture resistance	MIL-STD-202, Meth. 106
Corrosion	MIL-STD-202, Meth. 101, Cond B
RoHS	compliant

## Packing

Single or 100