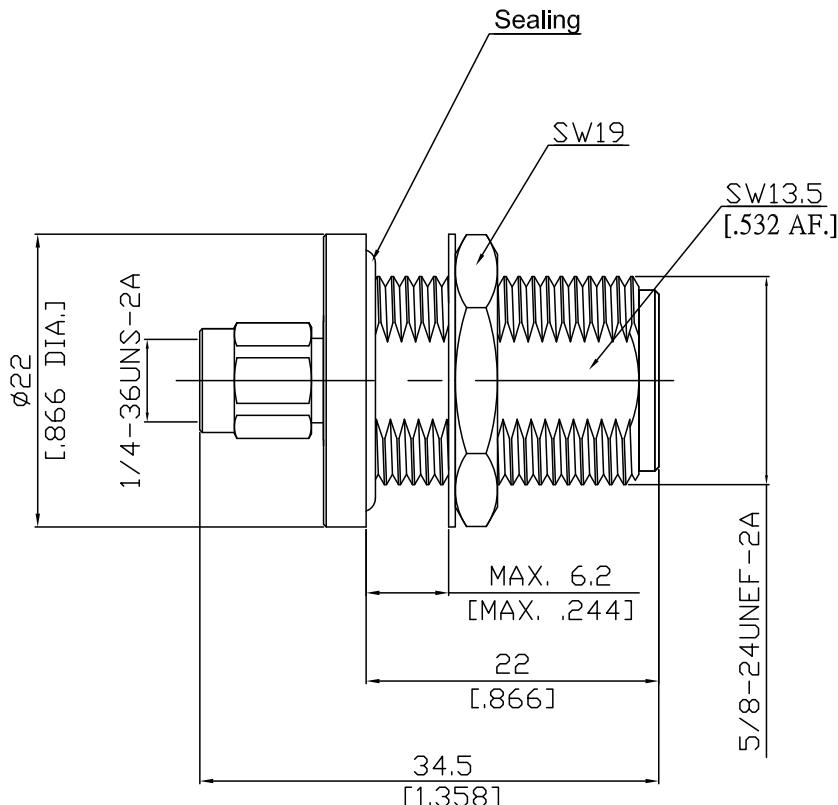


SMA plug (male) / N jack (female) Bulkhead adaptor  
DC-11GHz VSWR 1.20

**AD-A1N25A-BH / 911-93**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

SMA according to

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

N according to

IEC 60169-16; MIL-STD-348B/304

#### Electrical Data

Impedance

50 Ω

Frequency

DC to 11 GHz

VSWR (Return Loss)

≤ 1.20 ( $\geq 20.8$  dB)

Insertion Loss

$\leq 0.04 \times \sqrt{f}$  (GHz) dB

Insulation resistance

$\geq 5 \times 10^3$  MΩ

Center contact resistance

$\leq 3$  mΩ, SMA side

$\leq 1$  mΩ, N side

Outer contact resistance

$\leq 2$  mΩ, SMA side

$\leq 0.25$  mΩ, N side

Test voltage

1000 V rms

Working voltage

480 V rms

Power handling (at 20 °C, sea level, VSWR 1.0)

$\leq 200$  W @ 2 GHz

RF-leakage

$\geq 100$  dB up to 1 GHz

SMA plug (male) / N jack (female) Bulkhead adaptor  
DC-11GHz VSWR 1.20

## AD-A1N25A-BH / 911-93

## Material And Plating

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	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Piece Parts (N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Fastening nut	Brass	Nickel
Washer	Brass	Nickel

## Mechanical Data

Coupling mechanisms	SMA side	N side
Mating cycles	Screw-lock	Screw-lock
Center contact captivation: axial	min. 500	min. 500
Coupling test torque	≥ 28 N	≥ 28 N
Recommended torque	max. 1.7 Nm	max. 1.7 Nm
	0.7 Nm to 1.1 Nm	0.7 Nm to 1.1 Nm

## Environmental Data

Temperature Range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

## Packing

Single or 100