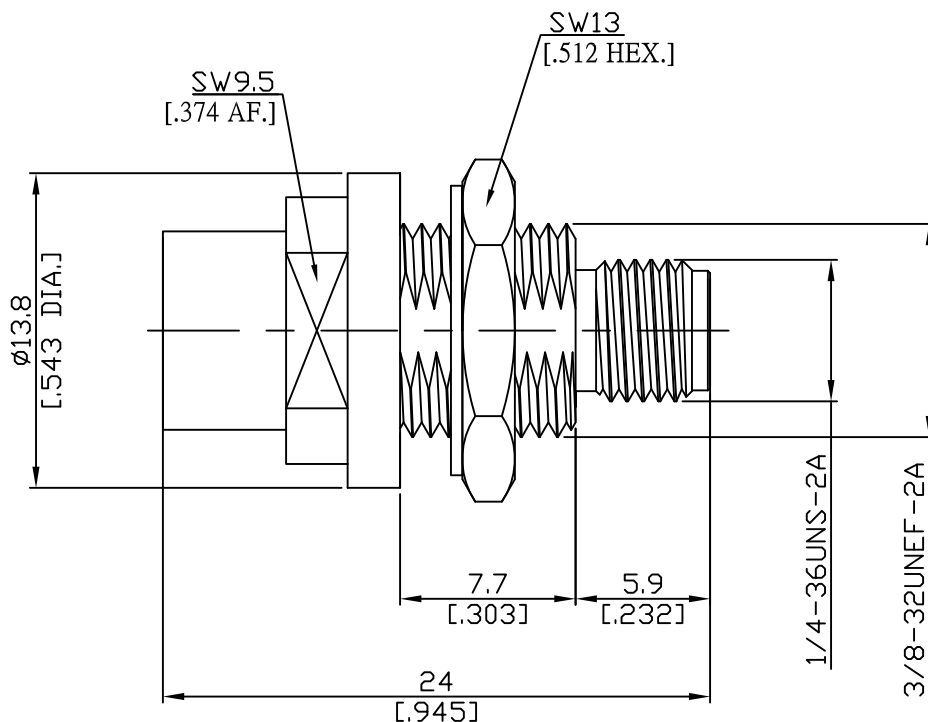


Snap-On SMA plug (male) / SMA jack (female) Bulkhead adaptor  
DC-18GHz VSWR ≤ 1.15

## AD-AQ1A25A-BH / 91X-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

According to

IEC 60169-15; MIL-C-39012; MIL-STD-348B/310

### Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.1 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation resistance	≥ 5 x 10 <sup>3</sup> MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

## Snap-On SMA plug (male) / SMA jack (female) Bulkhead adaptor DC-18GHz VSWR ≤ 1.15

### AD-AQ1A25A-BH / 91X-9X

#### Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Insulator	PTFE	
Coupling spring	Stainless Steel	Passivated
Washer	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Fastening nut	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Insulator	PTFE	

#### Mechanical Data

	SMA[male] side	SMA[male] side
Coupling mechanisms	Snap-lock	Screw-lock
Mating cycles	min. 500	min. 500
Coupling nut retention	≥ 270 N	≥ 270 N
Center contact captivation: axial	≥ 27 N	≥ 27 N
radial	≥ 3 Ncm	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm	0.8 Nm to 1.1 Nm

#### Environmental Data

Temperature Range	-65°C to +125°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

Singleor 100

#### Related Document

Mounting Dimension MD18