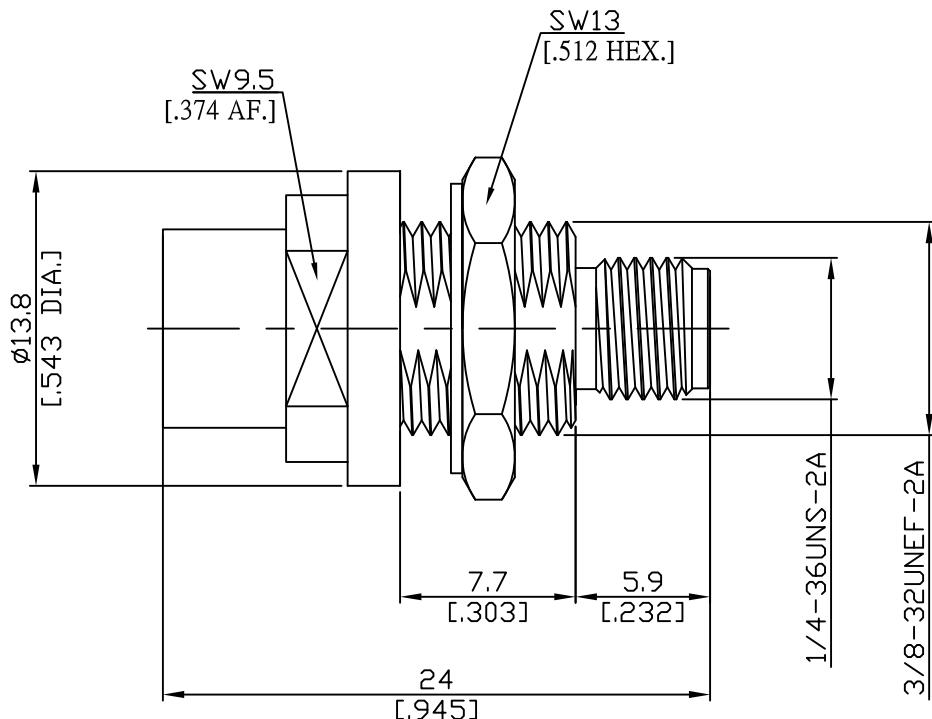


Snap-On SMA plug (male) / SMA jack (female) Bulkhead adaptor
DC-18GHz VSWR \leq 1.15

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)

\leq 1.15 (\geq 23.1 dB)

Insertion Loss

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

Insulation resistance

$\geq 5 \times 10^3$ M Ω

Center contact resistance

≤ 3 m Ω

Outer contact resistance

≤ 2 m Ω

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

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 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Insulator	PTFE	
Coupling spring	Stainless Steel	Passivated
Washer	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Fastening 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	

Mechanical Data

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

Single or 100

Related Document

Mounting Dimension

MD18