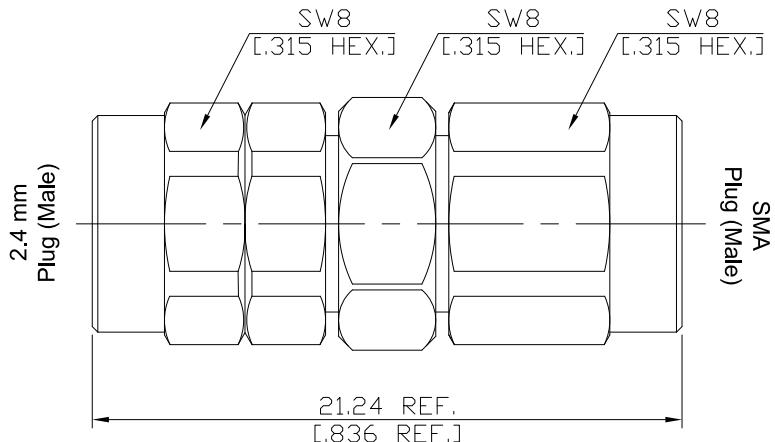




2.4mm Plug (Male) / SMA Plug (Male)  
Straight Adapter DC-18GHz VSWR 1.15

**AD-Q1A15A / 9XX-9XX**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

2.4mm According to

IEC 61169-40; IEEE Std 287; MIL-STD-348B/324

2.4mm Mechanically compatible with

1.85 mm

SMA According to

IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

SMA Mechanically compatible with

2.92 mm and 3.5 mm

### Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.15 ( $\geq 23.13$  dB)

Insertion Loss

≤ 0.05  $\times \sqrt{F}$  (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 4 mΩ, 2.4mm side

≤ 3 mΩ, SMA side

Outer Contact Resistance

≤ 2.5 mΩ, 2.4mm side

≤ 2 mΩ, SMA side

Test Voltage (at sea level)

500 V rms

Working Voltage (at sea level)

150 V rms

RF Leakage

≥ 100 dB up to 1 GHz

### Material And Plating

#### Piece Parts (2.4mm)

#### Material

#### Plating

Centre contact

Beryllium Copper

Gold plating

(Non-magnetic nickel-phosphorus underplating)

Body

Stainless Steel

Passivated

Insulator

PEI

Gasket

Silicone Rubber

Coupling nut

Stainless Steel

Passivated

#### Piece Parts (SMA)

#### Material

#### Plating

Centre contact

Beryllium Copper

Gold plating

(Non-magnetic nickel-phosphorus underplating)

Body

Stainless Steel

Passivated

Insulator

PTFE

Gasket

Silicone Rubber

Coupling nut

Stainless Steel

Passivated

## 2.4mm Plug (Male) / SMA Plug (Male) Straight Adapter DC-18GHz VSWR 1.15

### AD-Q1A15A / 9XX-9XX

#### Mechanical Data

Coupling mechanisms	2.4mm Side	SMA Side
Mating Cycles	Screw-lock	Screw-lock
Center Contact Captivation	≥ 500	≥ 500
Coupling Test Torque	≥ 20 N	≥ 20 N
Recommended Torque	1.65 Nm max.	1.70 Nm max.
	0.80 Nm to 1.10 Nm	0.80 Nm to 1.10 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