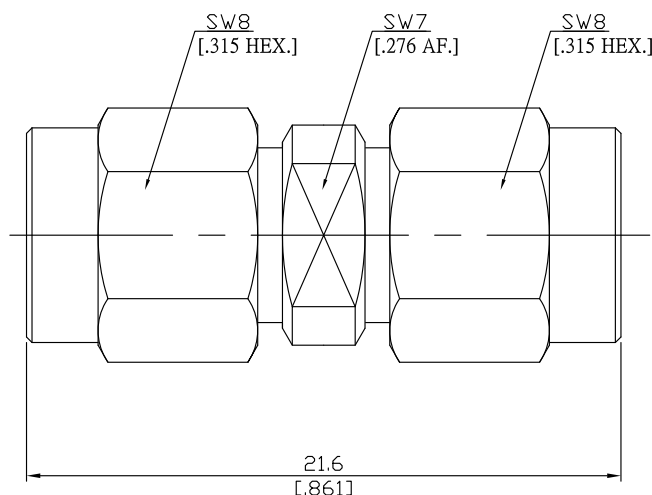


Precision SMA Plug (Male) to Precision SMA Plug (Male) Adapter
DC-27GHz VSWR1.15

AD-PCA1PCA15A / 9XX-9XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Mechanically compatible with

2.92mm, 3.5mm

According to

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 27 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

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

Insulation Resistance

≥ 5 G Ω

Center Contact Resistance

≤ 3 m Ω

Outer Contact Resistance

≤ 2 m Ω

Test Voltage (at sea level)

1000 V rms

Working Voltage (at sea level)

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

Material And Plating

Piece Parts (Precision SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PTFE/PEI	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Piece Parts (Precision SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PTFE/PEI	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Coupling Nut Retention	≥ 270 N
Center Contact Captivation: axial	≥ 20 N
radial	≥ 3 N.cm.
Weight	N/A
Coupling Test Torque	1.70 Nm max.
Recommended Torque	0.9 Nm

Environmental Data

Temperature Range	-55°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