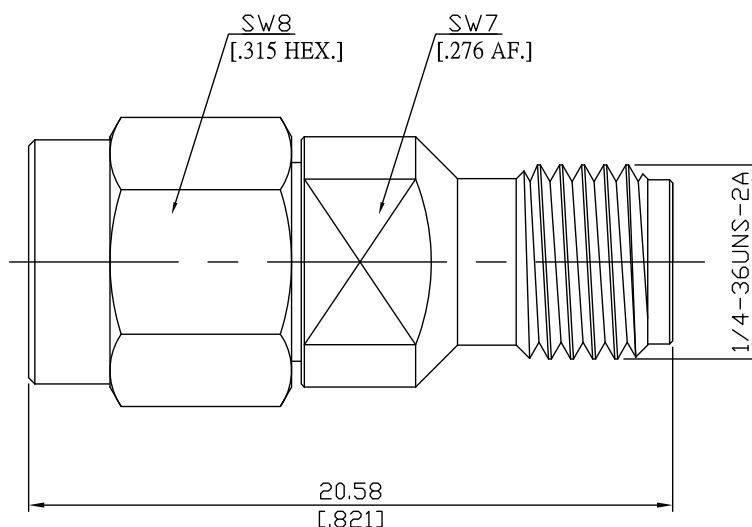


Precision SMA Plug (Male) to Precision SMA Jack (Female) Adapter  
DC-27GHz VSWR1.15

**AD-PCA1PCA25A / 9XX-9X**



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  $\Omega$

Frequency

DC to 27 GHz

VSWR (Return Loss)

$\leq 1.15$  ( $\geq 23.13$  dB)

Insertion Loss

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

Insulation Resistance

$\geq 5$  G $\Omega$

Center Contact Resistance

$\leq 3$  m $\Omega$

Outer Contact Resistance

$\leq 2$  m $\Omega$

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)

$\leq 200$  W @ 2 GHz

RF Leakage

$\geq 100$  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	

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DC-27GHz VSWR1.15

## AD-PCA1PCA25A / 9XX-9X

### 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