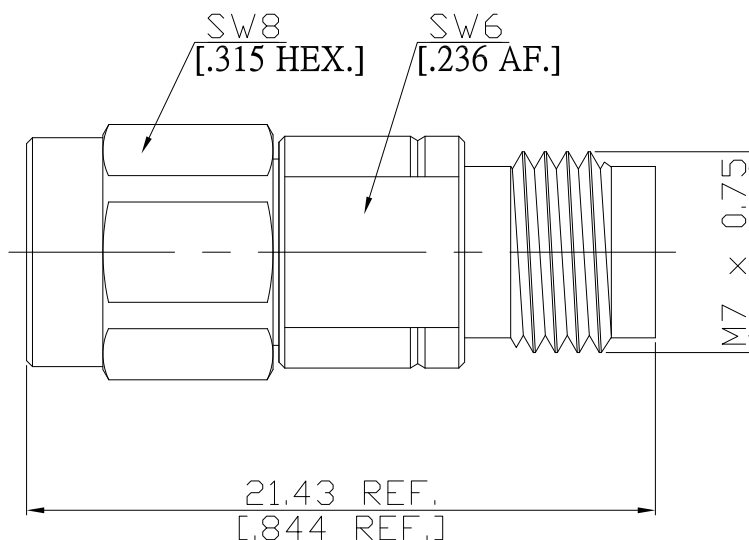


Precision SMA Plug (Male) to 2.4mm Jack (Female) Adapter  
DC-27GHz VSWR1.15

**AD-PCA1Q25A / 9XX-9X**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

Mechanically compatible with  
According to

Precision SMA Side  
2.92mm and 3.5mm  
IEC 60169-15, MIL-STD-348B/310

2.4mm Side  
1.85mm  
IEC 61169-40, IEEE Std 287

**Electrical Data**

Impedance	50 $\Omega$
Frequency	DC to 27 GHz
VSWR (Return Loss)	$\leq 1.15$ ( $\geq 23.13$ dB)
Insertion Loss	$\leq 0.05 \times \sqrt{F}$ (GHz) dB
Insulation Resistance	$\geq 5$ G $\Omega$
Center Contact Resistance 2.4mm	$\leq 4$ m $\Omega$
Outer Contact Resistance 2.4mm	$\leq 2.5$ m $\Omega$
Center Contact Resistance Precision SMA	$\leq 3$ m $\Omega$
Outer Contact Resistance Precision SMA	$\leq 2$ m $\Omega$
Test Voltage (at sea level)	500 V rms
Working Voltage (at sea level)	150 V rms
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 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Piece Parts (2.4mm)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Stainless Steel	Passivated
Insulator	PEI	

Precision SMA Plug (Male) to 2.4mm Jack (Female) Adapter  
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**Mechanical Data**

	Precision SMA Side	2.4mm Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Coupling Nut Retention	≥ 270 N	≥ 270 N
Center Contact Captivation	≥ 20 N	≥ 20 N
Coupling Test Torque	1.70 Nm max.	1.65 Nm max.
Recommended Torque	0.9 Nm	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**

Standard	Single
Weight	N/A