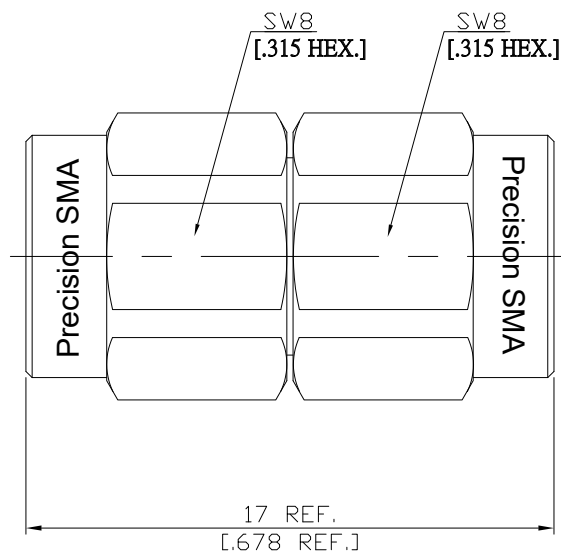


Precision SMA Plug (Male) to Precision SMA Plug (Male) Adapter
DC-27GHz VSWR1.15

AD-PCA1PCA15B / 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 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
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 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Stainless Steel	Passivated
Insulator	PTFE/PEI	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:
Date:
3/21/2023

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

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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