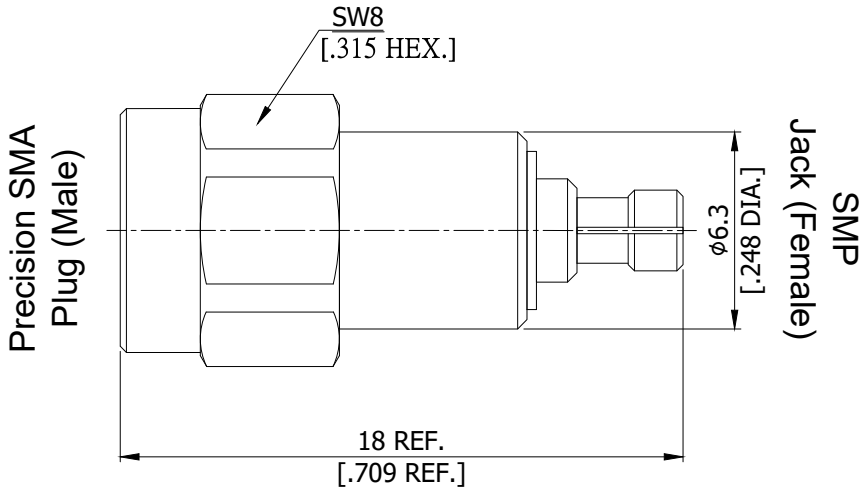
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

Precision SMA plug (male) to SMP Jack (Female) Adapter
DC-26.5GHz VSWR1.15

AD-PCA1P25C / 9X-99



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

	Precision SMA Side	SMP Side
Mechanically compatible with	2.92mm and 3.5mm	GPO
According to	IEC 60169-15, MIL-STD-348B/310	MIL-STD-348B/326

Electrical Data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB

Material And Plating

Piece Parts (Precision SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Piece Parts (SMP)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Insulator	PEI	

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.

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Mechanical Data

	Precision SMA Side	SMP Side
Coupling mechanisms	Screw-lock	Snap-on
Mating Cycles	≥ 500	if mating part is Smooth Bore, Catcher's Mitt ≥ 1000 if mating part is Limited Detent ≥ 500 if mating part is Full Detent ≥ 100
Center Contact Captivation	≥ 20 N	≥ 7 N
Engagement Force	None	Smooth Bore, Catcher's Mitt ≤ 9 N Limited Detent ≤ 45 N Full Detent ≤ 68 N
Disengagement Force	None	Smooth Bore, Catcher's Mitt ≥ 2.2 N Limited Detent ≥ 9 N Full Detent ≥ 22N
Coupling Test Torque	1.65 Nm max.	None
Recommended Torque	0.9 Nm	None

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

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