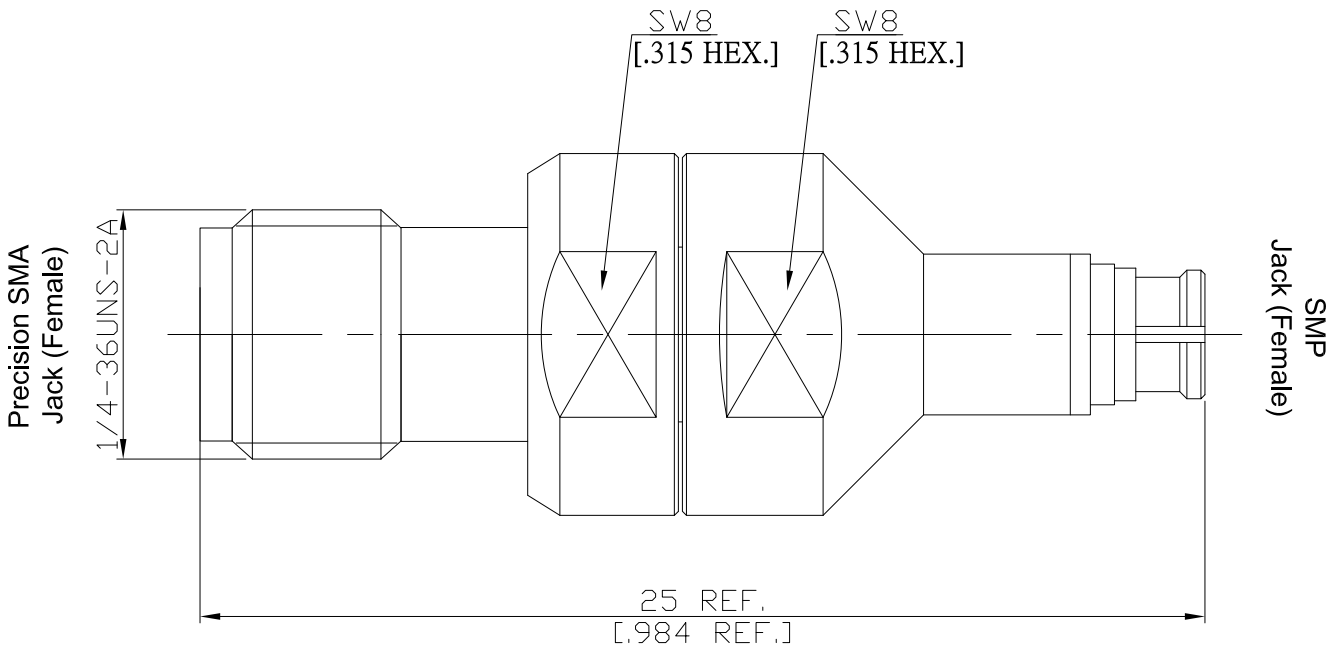
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

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

AD-PCA2P25B / 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	

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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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