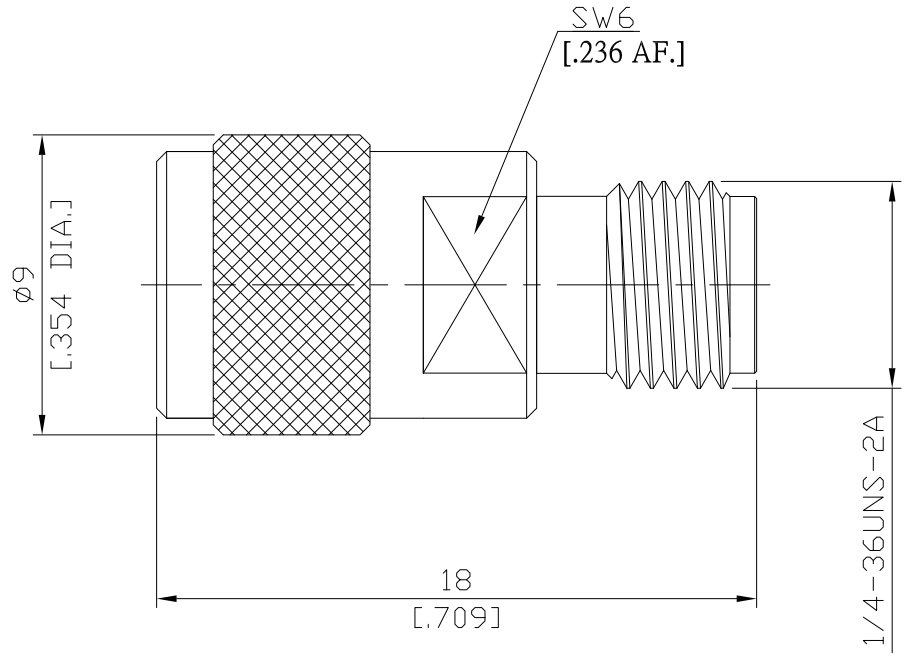
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision SMA Snap-on Plug (Male) to Precision SMA Jack (Female) Straight Adapter DC-26.5 GHz VSWR≤ 1.20

AD-PCAQ1PCA25A / 99X-9X



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

Interface

according to	IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω	
Frequency	DC to 26.5 GHz	
VSWR	DC-18 GHz: ≤ 1.15 (≥ 23.13 dB)	18-26.5 GHz: ≤ 1.20 (≥ 20.83 dB)
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 3 mΩ	
Outer contact resistance	≤ 3 mΩ	
Test voltage	1000 V rms	
Working voltage	350 V rms	

Material And Plating

Piece Parts (Precision SMA Snap-On)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body components	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Insulator	PTFE/PEI	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (Precision SMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Stainless Steel	Passivated
Insulator	PTFE/PEI	

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Mechanical Data

	Precision SMA Snap-On male side	Precision SMA female side
Coupling mechanisms	Snap-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center contact captivation	≥ 27 N	≥ 27 N

Environmental Data

Temperature Range	-55°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Singleor 100

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