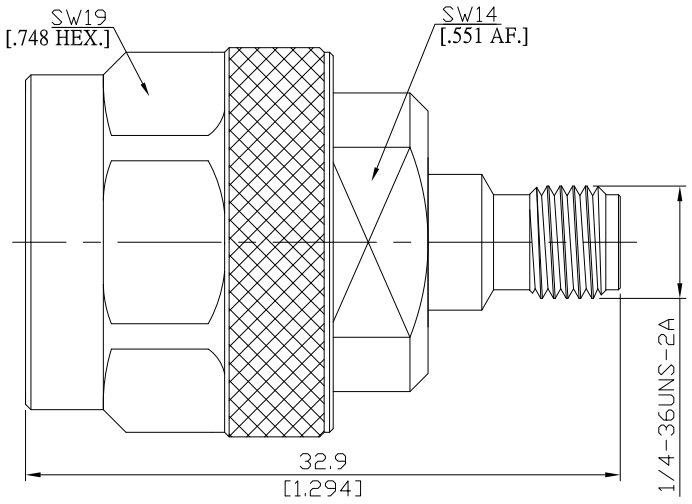
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision N plug (male) / 2.92mm jack (female) Straight Adaptor DC-18 GHz VSWR ≤ 1.15

AD-PCN1K25B / 9XX-9X



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

Interface

Precision N according to	IEC 60169-16; MIL-STD 348B/402
2.92mm according to	IEC 61169-35

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
Insertion Loss	≤ 0.4 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 1.0 mΩ, Precision N Side	≤ 3.0 mΩ, Precision TNC Side
Outer Contact Resistance	≤ 1.0 mΩ, Precision N Side	≤ 2.0 mΩ, Precision TNC Side
Test Voltage (at sea level)	750 V rms	
Working Voltage (at sea level)	250 V rms	
RF-leakage	≥ 90 dB up to 1 GHz	

Material And Plating

Piece Parts (Precision N)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PS	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Piece Parts (2.92mm)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PS	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	Precision N Side	2.92mm Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Coupling Nut Retention	N/A	N/A
Center Contact Captivation: axial	≥ 27 N	≥ 28 N
Coupling Test Torque	1.7 Nm max.	1.70 Nm
Recommended Torque	0.70 Nm to 1.10 Nm	0.80 Nm to 1.10 Nm

Environmental Data

Temperature Range	-60°C to +100°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

Single or 100

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