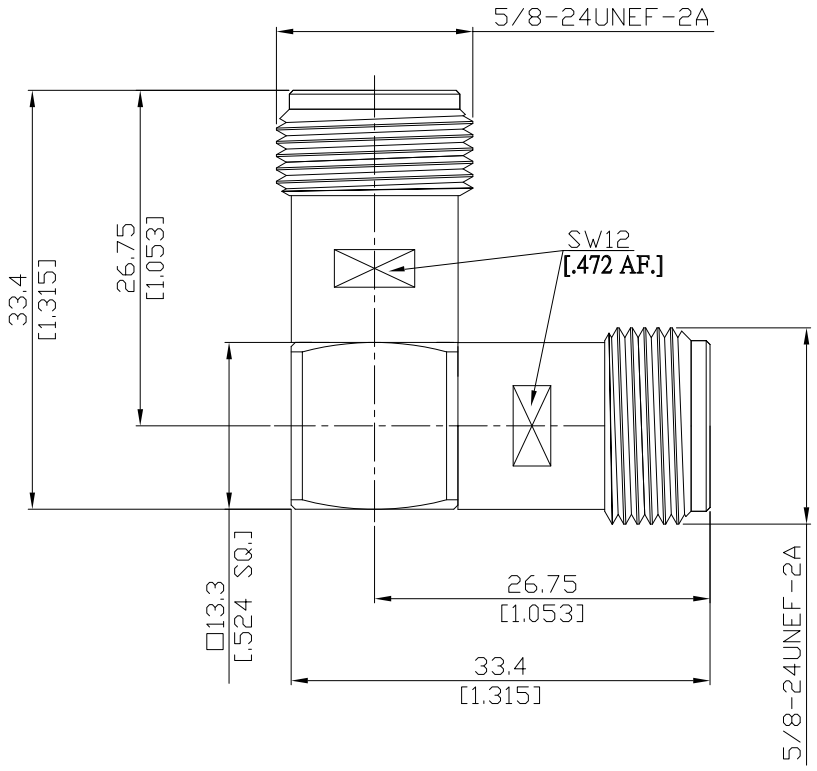
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

Precision N plug (male) / Precision N jack (female)
L-adaptor DC-18 GHz VSWR ≤1.25

ADL-PCN2PCN25A / 9X-9X



Interface

According to	IEC 61169-16, MIL-STD-348B/304

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center contact resistance	≤ 1.0 mΩ
Outer contact resistance	≤ 1.0 mΩ
Test voltage	2500 V rms
Working voltage	1000 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	PTFE	

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Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data	
Coupling mechanisms	Screw-lock
Mating Cycles	min. 500
Center contact captivation	≥ 28 N
Coupling Test Torque	1.70 Nm
Recommended Torque	0.70 Nm to 1.10 Nm
Environmental Data	
Temperature Range	-65°C to +165°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture Resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant
Packing	
	Single or 100

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