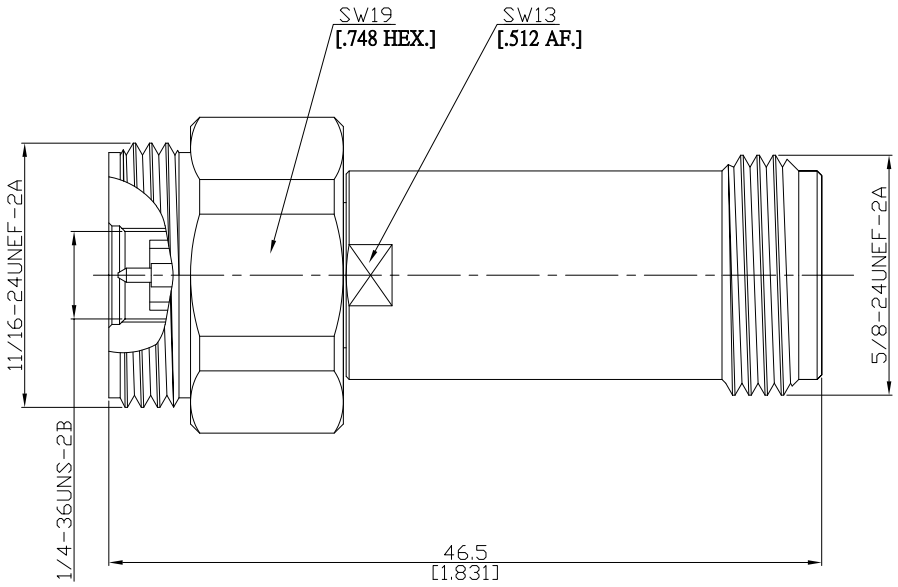
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Ruggedized NMD 3.5mm plug (male) / Precision N jack (female) Straight Adaptor DC-18 GHz VSWR ≤ 1.15

AD-NMPC1PCN25A / 9XX-9X



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

Interface

NMD 3.5mm according to	IEC 60169-23
Precision N according to	IEC 60169-16 ; MIL-STD-348B/402

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)
Insertion loss	≤ 0.05 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Material And Plating

Piece Parts (NMD 3.5mm)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Stainless Steel	Passivated
Insulator	PS	
Piece Parts (Precision N)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Stainless Steel	Passivated
Insulator	PS	

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Mechanical Data

	NMD 3.5mm side	Precision N side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	≥ 500
Center contact captivation	≥ 28 N	≥ 28 N
Coupling test torque	1.70 Nm	1.70 Nm
Recommended torque	0.80 Nm to 1.10 Nm	0.70 Nm to 1.10 Nm
Recommended torque ruggedized nut	1.36 Nm	

Environmental Data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 101, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Singleor 100

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