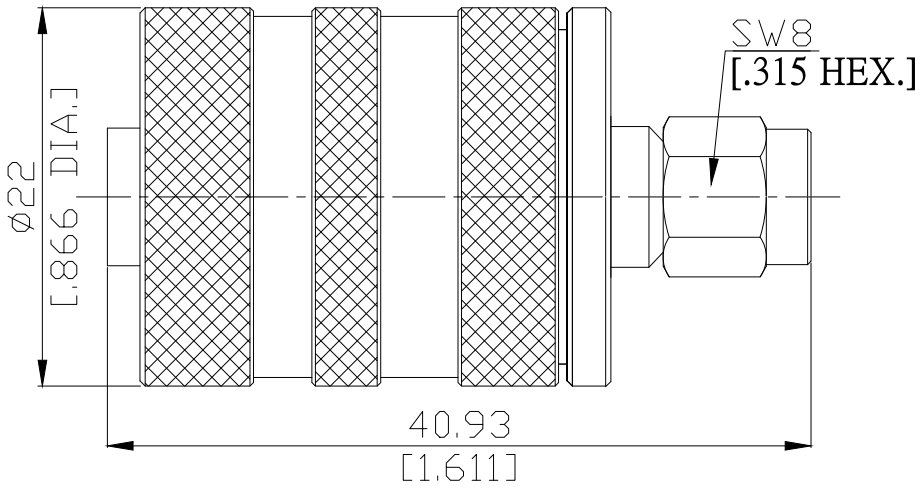
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N Snap-On plug (male) / SMA plug (male)
Straight adaptor DC-11 GHz VSWR ≤ 1.20

AD-NQ1A15A / H44-H44



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

Interface

according to	IEC 61169-8; MIL-STD-348B/301

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.8 dB)	
Insertion loss	≤ 0.04 x √F (GHz) dB	
Insulation resistance	≥ 5 x103 MΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 3 mΩ, SMA side;
Outer contact resistance	≤ 1 mΩ, N side	≤ 2 mΩ, SMA side;
Test voltage	1000 V rms	
Working voltage	480 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz	
RF-leakage	≥ 100 dB up to 1 GHz	

Material And Plating

Piece Parts (N Snap-On)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
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Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	N side	SMA side
Coupling mechanisms	Snap-On	Screw-lock
Mating cycles	≥ 200	≥ 500
Center contact captivation: axial	≥ 28 N	≥ 27 N
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.8 Nm to 1.1 Nm
Engagement force	30 N typical	N/A
Disengagement force	30 N typical	N/A

Environmental Data

Temperature range	-65°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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