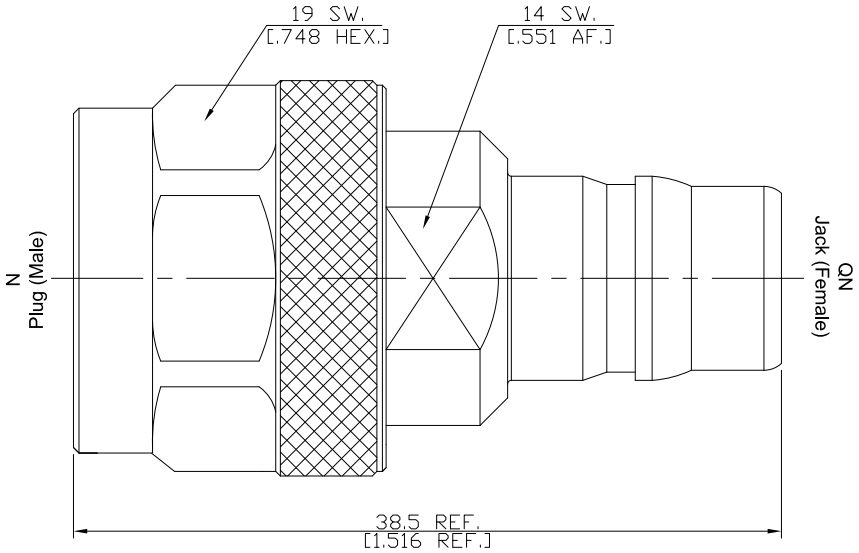
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

N Plug (Male) / QN jack (female) Adaptors Straight DC-6 GHz VSWR1.2

AD-N1QN25A / 944-94



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

Interface

N according to	IEC 60169-16; MIL-STD-348B/304; CECC 22210; MIL-PRF-39012
QN according to	IEC 61169-42

Electrical Data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
Insertion Loss	≤ 1.2 (≥ 20.83 dB)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 1.5 mΩ, QN side
Outer contact resistance	≤ 0.25 mΩ, N side	≤ 1.5 mΩ, QN side
Working voltage	1000 V rms	
Test voltage	2500 V rms	
Power handling	300 W @ 2.5 GHz (typ.)	

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (QN)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	N side	QN side
Coupling Mechanisms	Screw-lock	Quick-lock
Mating Cycles	min. 500	min. 100
Center contact captivation: axial	≥ 28 N	≥ 28 N
Engagement force	N/A	30 N (typ.)
Disengagement force	N/A	30 N (typ.)
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	0.7 Nm to 1.1 Nm	N/A

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Method 107 D, Condition B
Corrosion	MIL-STD-202, Method 101 D, Condition B
Vibration	MIL-STD-202, Method 204 D, Condition A
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106 F
RoHS	compliant

Packing

Single or 100

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