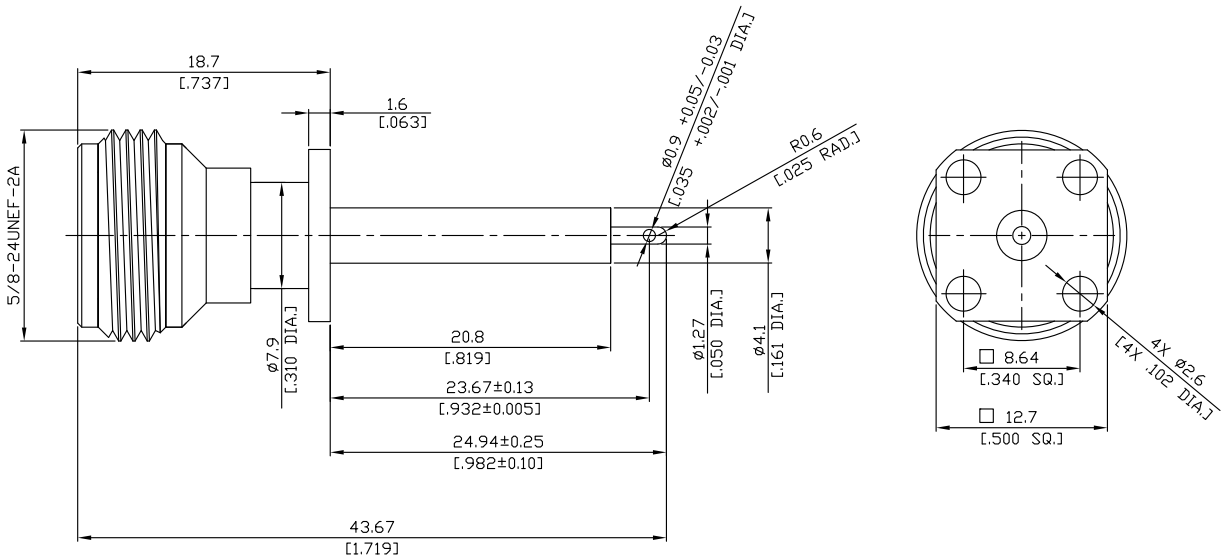
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N Jack (Female) Connector Solder Attachment 4 Hole Flange Mount Solder cup Terminal, 8.64mm (.340 inch) Hole Spacing DC-5GHz VSWR1.10

N2GFE50-4364B / 94-LP



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

Interface

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

Electrical Data

Impedance	50 Ω	
Frequency	DC to 5 GHz	
VSWR (Return Loss)	1.3 - 2.3GHz: ≤1.08 (≥28.30 dB)	4.4 - 5GHz: ≤1.10 (≥26.44 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Center Contact Resistance	≤ 1 mΩ	
Outer Contact Resistance	≤ 1.0 mΩ	
RF Leakage	≥ -90 dB	
Voltage Rating	≥ 500 V rms	
Dielectric Withstanding Voltage	≥1000 V rms (@ 60 Hz; sea level)	
Power Handling	1.3 - 2.3GHz: Avrg.: 250W/Peak: 400W	4.4 - 5GHz: Avrg.: 150W/Peak: 200W
Insulation Resistance	≥ 5000 MΩ	
PIM level	≥ -150 dBc	

- Electrical specifications guaranteed for connector only -

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating (≥100 microinches; per MIL-G-45204; type I; grade C; class 2)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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Mechanical Data	
Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered
Terminal Type	Solder cup
Captivated Type	Mechanical
Pin Slots	6 slot fingers
Center Contact Captivation	≥ 6.3 lbs (48 N)
Coupling Nut Mating Torque	≥ 8-10 lbs (0.90-1.13 N)
Environmental Data	
Temperature Range	-40°C to +85°C
Altitude	Operating: 1,000 ft/Storage: 40,000 ft
RoHS	compliant
Humidity	MIL-STD-202, Method 103, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Thermal Shock	MIL-STD-202, Method 107, Condition A-1
Salt Atmosphere	MIL-STD-202, Method 101E, Condition A
Packing	
	Single or 100

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