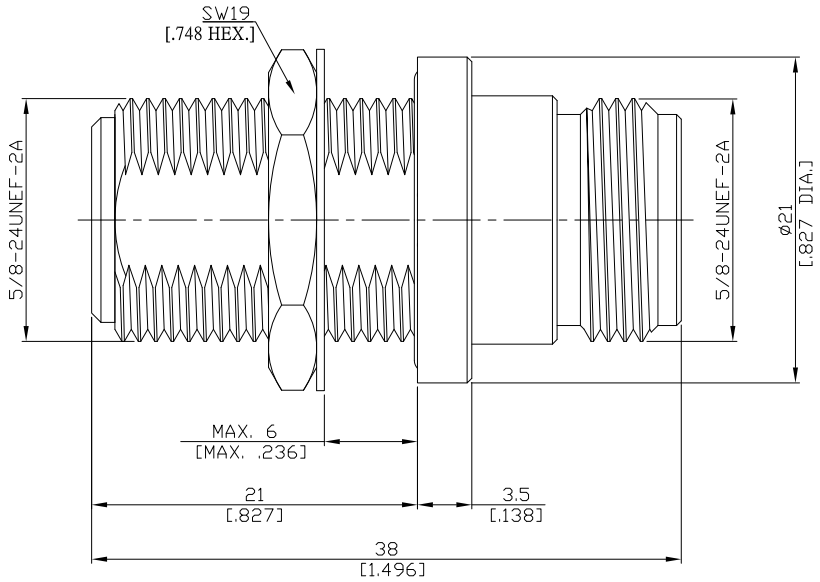
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N jack (female) / N jack (female)
Bulkhead Adaptor, 75 Ohm DC-6 GHz

AD-N2N27A-BH / 94-94



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

Interface

according to	IEC 61169-16; MIL-STD-348B/331

Electrical Data

Impedance	75 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB (typ.)
Insertion loss	≤ 0.1 x √f (GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage	2500 V rms
Working voltage	1400 V rms
RF leakage	≥ 128 dB @ DC to 1 GHz

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Fastening nut	Brass	Copper-Tin-Zinc Alloy
Washer	Brass	Copper-Tin-Zinc Alloy
Piece Parts (N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

Rev.:-
Date: JUL/16/2021

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

N jack (female) / N jack (female) Bulkhead Adaptor, 75 Ohm DC-6 GHz

AD-N2N27A-BH / 94-94

Mechanical Data		
Coupling mechanisms	Screw-lock	
Mating cycles	≥ 500	
Coupling nut retention	≥ 450 N	
Center contact captivation	axial: ≥ 28 N	radial: ≥ 3 Ncm
Coupling test torque	≤ 1.7 Nm	
Coupling torque recommended	0.7 Nm to 1.1 Nm	
Environmental Data		
Temperature Range	-65°C to + 165°C	
Thermal shock	MIL-STD-202, Method 107, Condition B	
Corrosion resistance	MIL-STD-202, Method 101, Condition B	
Vibration	MIL-STD-202, Method 204, Condition B	
Shock	MIL-STD-202, Method 213, Condition I	
Moisture resistance	MIL-STD-202, Method 106	
RoHS	compliant	
Packing		
	Singleor 100	

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