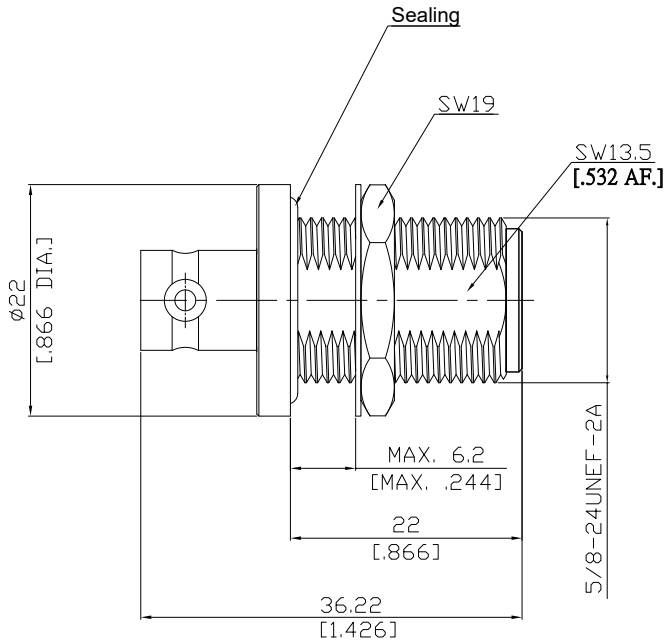
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N jack (female) / BNC jack (female) Bulkhead adaptor
DC-4GHz VSWR ≤ 1.15

AD-N2B25A-BH / H4-H4



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

Interface

N according to	IEC 61169-16; CECC 22210; MIL-C-39012; MIL-STD-348B/304
BNC according to	IEC 61169-8; CECC 22120; MIL-C-39012; MIL-STD-348B/301

Electrical Data

Impedance	50 Ω	
Frequency	DC to 4 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 x10³ MΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 1.5 mΩ, BNC side
Outer contact resistance	≤ 0.25 mΩ, N side	≤ 1 mΩ, BNC side
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz	

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Phosphor Bronze	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 (BNC)	**Material**	**Plating**
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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Mechanical Data

	N side	BNC side
Coupling mechanisms	Screw-lock	Bayonet-lock
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 28 N	≥ 28 N
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, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

Related Document

Mounting Dimension MD5

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