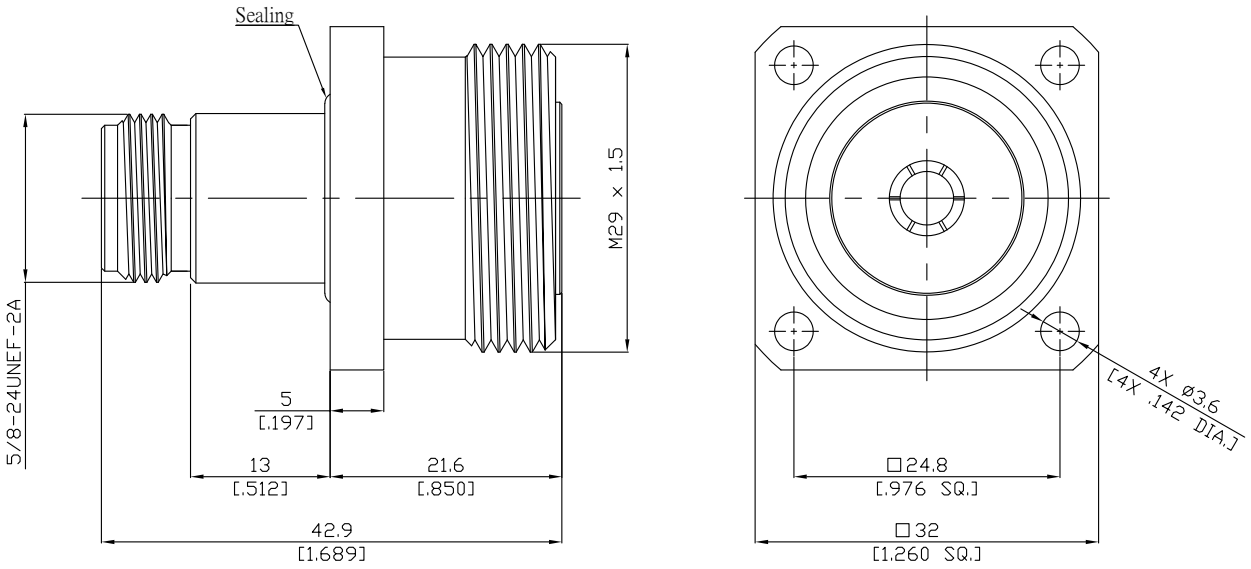
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N Jack (Female) to 7/16 Jack (Female), low PIM 4-Hole Panel Adapter, DC-500 MHz, VSWR ≤ 1.15

AD-N2D25A-PF / H4-H4



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

Interface

N according to	IEC 61169-16; MIL-STD-348B/304
7/16 according to	IEC 61169-4

Electrical Data

Impedance	50 Ω	
Frequency	DC to 500 MHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
PIM Level	> -153 dBc (2x 43dBm)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1 mΩ, N side;	≤ 0.4 mΩ, 7-16 side
Outer contact resistance	≤ 0.25 mΩ N side;	≤ 1.5 mΩ, 7-16 side
Working voltage	500 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz	700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 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	Silicon Rubber	
Piece Parts (7/16)	**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	7/16 side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	min. 500
Coupling nut retention	≥ 450 N	≥ 1000 N
Center contact captivation: axial	≥ 200 N	≥ 200 N
radial	≥ 3 Ncm	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm	max. 35 Nm
Recommended torque	0.7 Nm to 1.1 Nm	25 to 30 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Rapid change of temperature	IEC 60068-2-14 Test Na
Corrosion salt mist	IEC 60068-2-11 Test Ka
Vibration	IEC 60068-2-6 Test Fc
Shock	IEC 60068-2-27 Test Ea
Degree of protection (mated pair)	IEC 60529, IP68
RoHS	compliant

Packing

Singleor 100

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