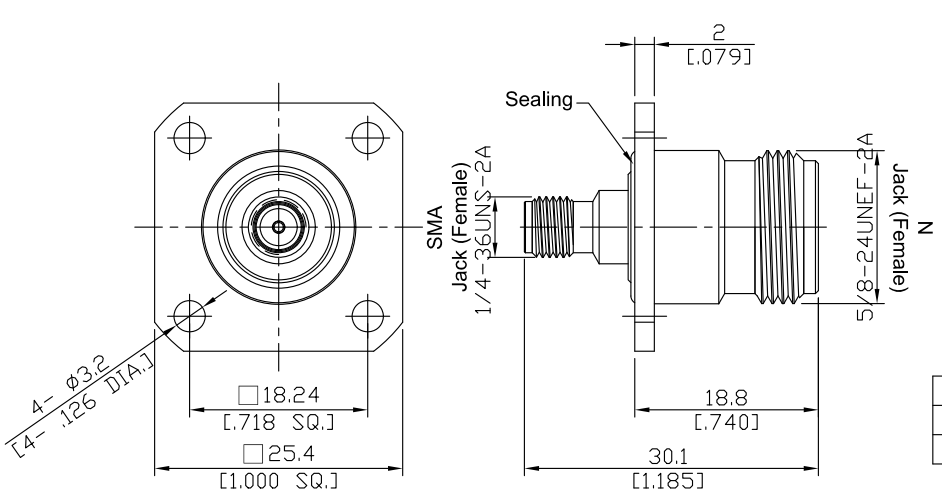
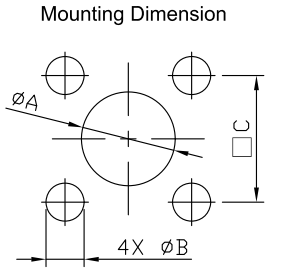
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

4 Hole Flange Mount SMA Jack (Female) to N Plug (Male) Adapter, DC–11GHz, VSWR 1.15

AD-A2N25A-PFS / 91-93





	mm		inch	
	Max.	Min.	Max.	Min.
A	16.3	16.1	.642	.634
B	3.30	3.20	.130	.126
C	18.35	18.15	.722	.715

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

Interface

SMA According to	IEC 60169-15, CECC22110, MIL-PRF-39012, MIL-STD-348B/310, EN 122110
N According to	IEC 60169-16, MIL-STD-348B/304, CECC22210, MIL-PRF-39012

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)	
Insertion Loss	≤ 0.04 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3 mΩ, SMA Side	≤ 1 mΩ, N Side
Outer Contact Resistance	≤ 2 mΩ, SMA Side	≤ 0.25 mΩ, N Side
Test Voltage	1000 V rms	
Working Voltage	480 V rms	
Power Handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz	
RF-Leakage	≥ 100 dB up to 1 GHz	

Material and Plating

Piece Parts (SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	
Piece Parts (N)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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

4 Hole Flange Mount SMA Jack (Female) to N Plug (Male) Adapter, DC–11GHz, VSWR 1.15

AD-A2N25A-PFS / 91-93

Mechanical Data

	SMA Side	N Side
Coupling Mechanisms	Screw-On	Screw-On
Mating Cycles	min. 500	min. 500
Coupling Nut Retention	≥ 270 N	≥ 450 N
Center Contact Captivation: axial	≥ 28 N	≥ 28 N
Coupling Test Torque	max. 1.70 Nm	max. 1.70 Nm
Recommended Torque	0.57 Nm	1.0 Nm

Environmental Data

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

Packing

Single or 100

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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