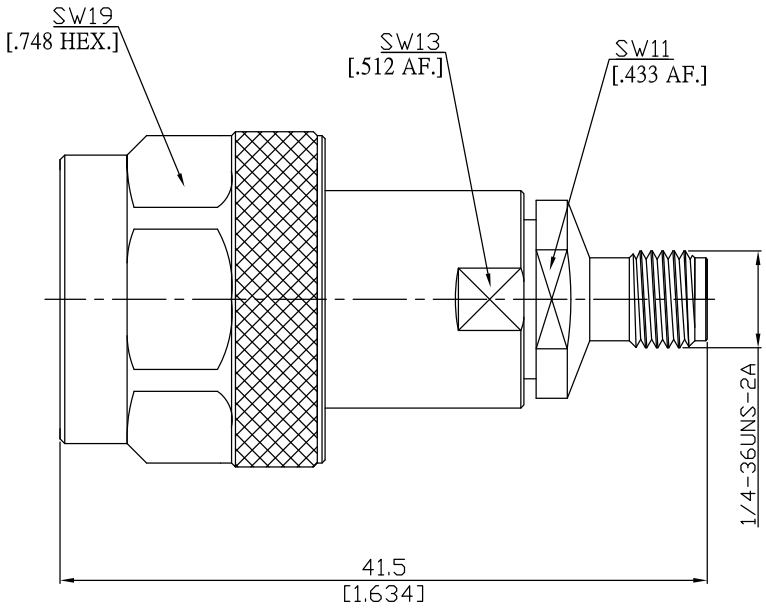
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision N Plug (Male) to SMA Jack (Female) Straight Adapter DC-18 GHz VSWR≤ 1.15

AD-PCN1A25A / 9XX-91



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

Interface

SMA according to	IEC 60169-15; MIL-STD-348B/310
N according to	MIL-C-39012; MIL-STD-348A/304

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR	≤ 1.15 (≥ 23.13 dB)
Insertion loss	≤ 0.04 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Test voltage	1000 V rms
Working voltage	480 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Material And Plating

Piece Parts (Precision N)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Stainless Steel	Passivated
Insulator	PS	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (SMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Body	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinc)
Insulator	PTFE	

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

Precision N Plug (Male) to SMA Jack (Female) Straight Adapter DC-18 GHz VSWR≤ 1.15

AD-PCN1A25A / 9XX-91

Mechanical Data

	Precision N side	SMA side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center contact captivation	≥ 28 N	≥ 28 N
Coupling test torque	1.70 Nm	1.70 Nm
Recommended torque	0.70 Nm to 1.10 Nm	0.80 Nm to 1.10 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
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