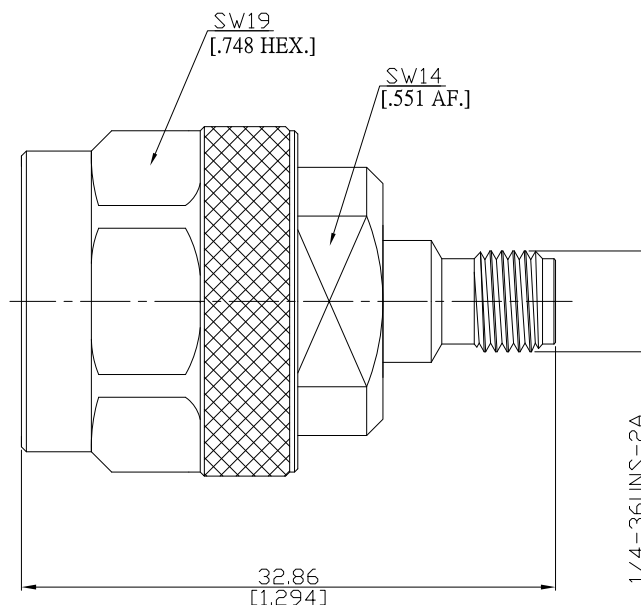


Precision N Plug (Male) to SMA Jack (Female)
Straight Adapter DC-18 GHz VSWR ≤ 1.15

AD-PCN1A25B / 9XX-91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Precision N according to

IEC 60169-16; MIL-STD-348/304; CECC 22 210

SMA according to

IEC 60169-15; CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR

≤ 1.15 (≥ 23.13 dB)

Insertion loss

≤ 0.1 x √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 1 mΩ, Precision N side;

≤ 3 mΩ, SMA side

Outer contact resistance

≤ 0.25 mΩ, Precision N side;

≤ 2 mΩ, SMA side

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, 100 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
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, 100 μinch)
Body	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 100 μinch)
Insulator	PTFE	

Precision N Plug (Male) to SMA Jack (Female)
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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	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100