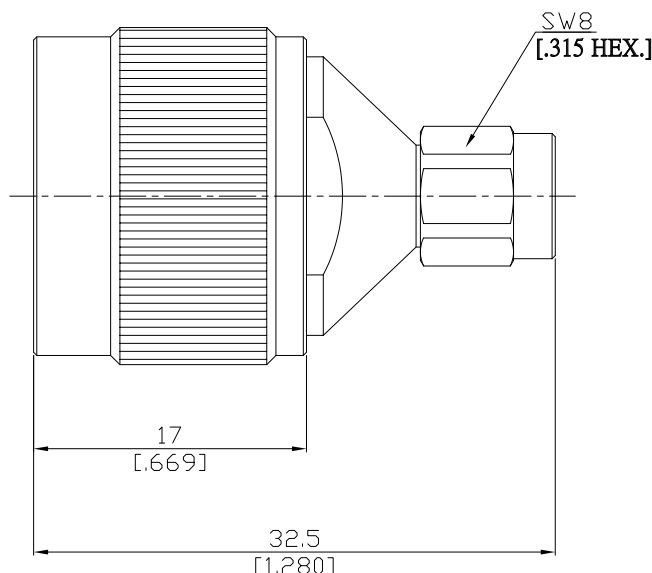


SMA plug (male) / Precision N plug (male)
Straight adaptor DC-18GHz

AD-A1PCN15C / 9XX-9XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to

IEC 60169-15; MIL-STD-348B/310

Precision N according to

IEC 60169-16; MIL-STD-348B/304

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

DC-12.4 GHz: $\leq 1.05 + 0.005f$ GHz 12.4-18 GHz: $\leq 0.83 + 0.023f$ GHz

Insertion Loss

$\leq 0.04 \times \sqrt{f}$ (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ, SMA side;

≤ 1 mΩ, Precision N side

Outer contact resistance

≤ 2 mΩ, SMA side;

≤ 0.25 mΩ, Precision 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)

Centre contact

Material

Beryllium Copper

Plating

Gold plating, 3 μinch
(Non-magnetic nickel-phosphorus underplating, 80 μinch)

Body

Stainless Steel

Passivated

Insulator

PTFE

Gasket

Silicone Rubber

Coupling nut

Stainless Steel

Passivated

Piece Parts (Precision N)

Centre contact

Material

Beryllium Copper

Plating

Gold plating, 3 μinch
(Non-magnetic nickel-phosphorus underplating, 80 μinch)

Body

Stainless Steel

Passivated

Insulator

PS

Gasket

Silicone Rubber

Coupling nut

Stainless Steel

Passivated

SMA plug (male) / Precision N plug (male)
Straight adaptor DC-18GHz

AD-A1PCN15C / 9XX-9XX

Mechanical Data

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

Environmental Data

Temperature Range	-5°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