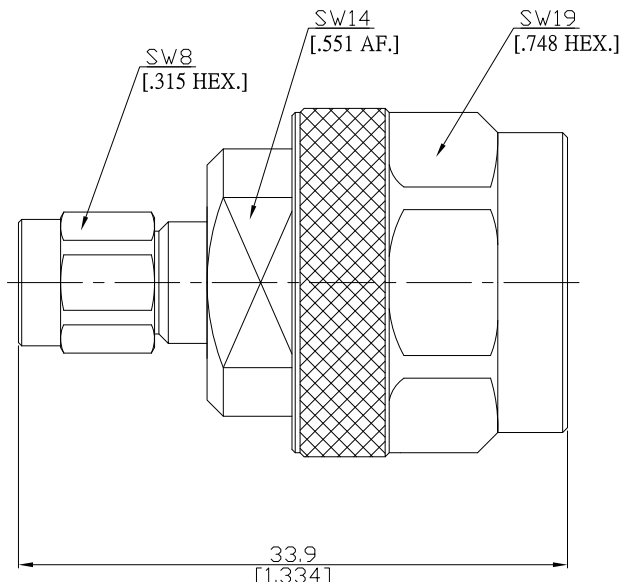


SMA R/P plug (male) / N plug (male)
Straight adaptor DC-12GHz VSWR 1.15

AD-A5N15A / 9XX-HXX



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

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 12 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

$\leq 0.05 \times \sqrt{F}$ (GHz) dB

Insulation resistance

≥ 5 G Ω

Center contact resistance

≤ 1 m Ω , N side

≤ 3 m Ω , SMA side

Outer contact resistance

≤ 0.25 m Ω , N side

≤ 2 m Ω , SMA 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 | Phosphor Bronze | Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch) |
| Body | Stainless Steel | Passivated |
| Insulator | PTFE | |
| Gasket | Silicone Rubber | |
| Coupling nut | Stainless Steel | Passivated |
| Piece Parts (N) | Material | Plating |
| Centre contact | Beryllium Copper | Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch) |
| Body | Stainless Steel | Passivated |
| Insulator | PTFE | |
| Gasket | Silicone Rubber | |
| Coupling nut | Stainless Steel | Passivated |

SMA R/P plug (male) / N plug (male)
Straight adaptor DC-12GHz VSWR 1.15

AD-A5N15A / 9XX-HXX

Mechanical Data

| | SMA side | N side |
|-----------------------------------|--------------------|--------------------|
| Coupling mechanisms | Screw-lock | Screw-lock |
| Mating cycles | min. 500 | min. 500 |
| Center contact captivation: axial | ≥ 27 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