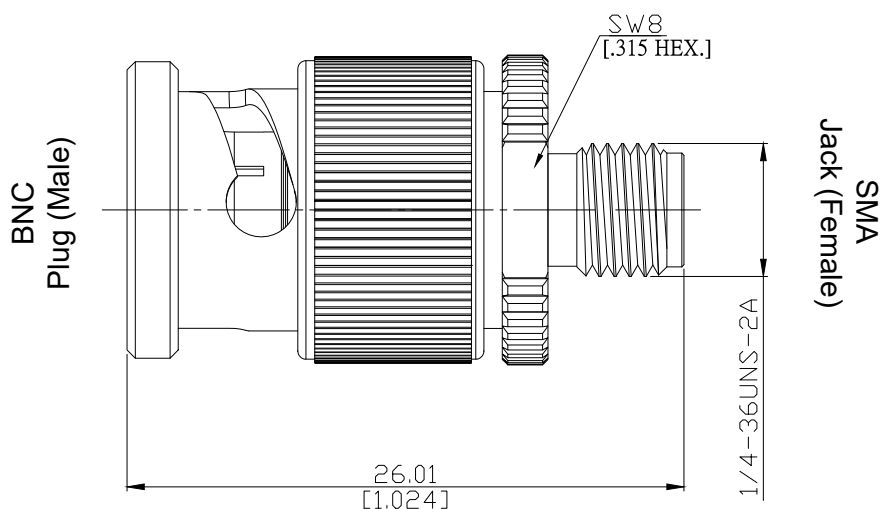


BNC plug (male) / SMA jack (female)
Straight adaptor DC- 4GHz VSWR1.15

AD-B1A25B / 9XX-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

BNC side according to

IEC 60169-8; MIL-STD-348B/301

SMA side according to

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 4 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

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

Center contact resistance

≤ 1.5 m Ω , BNC side;

≤ 3 m Ω , SMA

Outer contact resistance

≤ 1 m Ω , BNC side;

≤ 2 m Ω , SMA

Test voltage

1000 V

Working voltage

400 V rms

Power handling (at 20 °C, sea level, VSWR 1.0)

≤ 80 W @ 2 GHz

Material And Plating

| Piece Parts (BNC) | Material | Plating |
|-------------------|------------------|--|
| Centre contact | Beryllium Copper | Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| 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 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body | Stainless Steel | Passivated |
| Insulator | PTFE | |

BNC plug (male) / SMA jack (female)
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Mechanical Data

| | | |
|-----------------------------------|--------------|------------------|
| Coupling mechanisms | BNC side | SMA side |
| Mating cycles | Bayonet-lock | Screw-lock |
| Center contact captivation: axial | min. 500 | min. 500 |
| Coupling test torque | ≥ 28 N | ≥ 27 N |
| Recommended torque | N/A | max. 1.7 Nm |
| | N/A | 0.8 Nm to 1.1 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