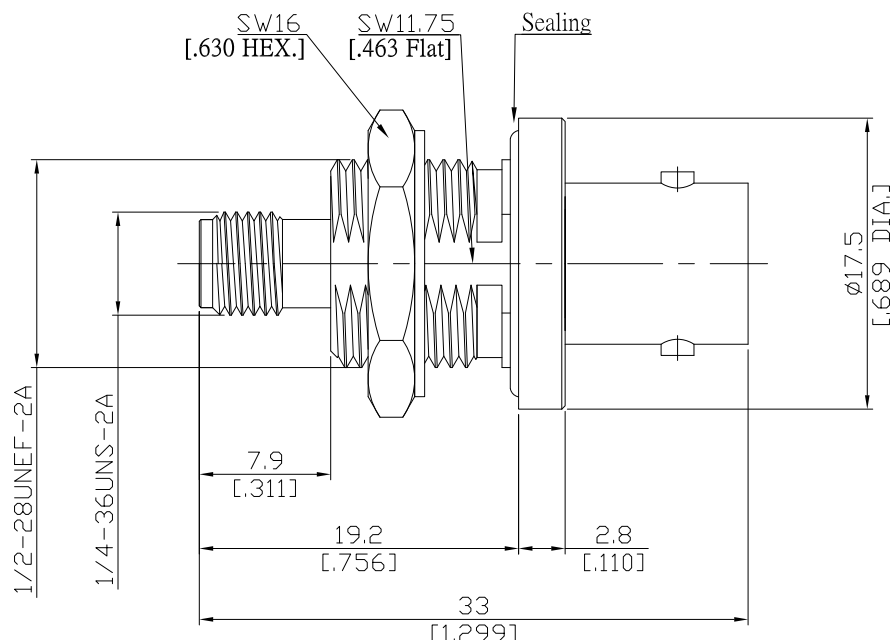


SMA jack (female) / BNC jack (female) Bulkhead adaptor  
DC-4GHz VSWR ≤ 1.20

**AD-A2B25A-BH / 93-93**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

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

BNC side according to

IEC 61169-8; MIL-STD-348B/301

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 4 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.8 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ, SMA side

≤ 1.5 mΩ, BNC side

Outer contact resistance

≤ 2 mΩ, SMA side

≤ 1.0 mΩ, BNC side

Test voltage

1000 V rms

Working voltage

400 V rms

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

≤ 80 W @ 2 GHz

**Material And Plating**

| Piece Parts (SMA) | Material         | Plating                                                                          |
|-------------------|------------------|----------------------------------------------------------------------------------|
| Centre contact    | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body              | Brass            | Nickel                                                                           |
| Insulator         | PTFE             |                                                                                  |
| Gasket            | Silicone Rubber  |                                                                                  |
| Fastening nut     | Brass            | Nickel                                                                           |
| Washer            | Brass            | Nickel                                                                           |
| Piece Parts (BNC) | Material         | Plating                                                                          |
| Centre contact    | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body              | Brass            | Nickel                                                                           |
| Insulator         | PTFE             |                                                                                  |

SMA jack (female) / BNC jack (female) Bulkhead adaptor  
DC-4GHz VSWR ≤ 1.20

**AD-A2B25A-BH / 93-93**

**Mechanical Data**

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

**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

**Related Document**

|                    |     |
|--------------------|-----|
| Mounting Dimension | MD7 |
|--------------------|-----|