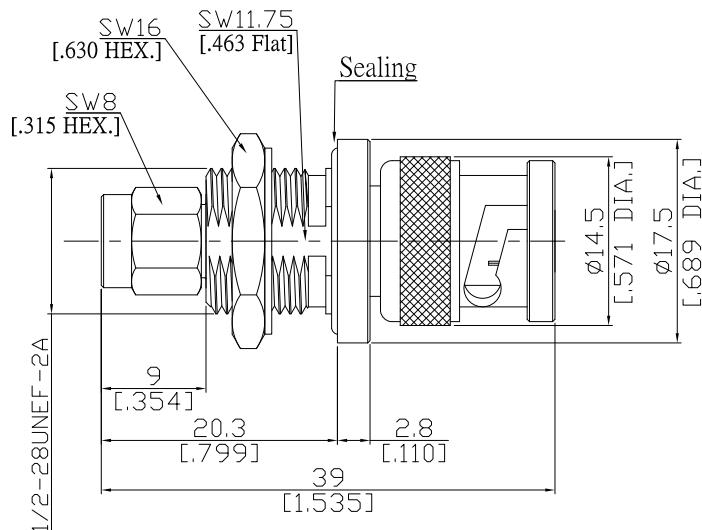


## SMA plug (male) / BNC plug (male) Bulkhead adaptor DC- 4GHz VSWR1.20

### AD-A1B15A-BH / 133-133



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

SMA according to

IEC 60169-15; MIL-C-39012; MIL-STD-348A/310

BNC side according to

IEC 61169-8; MIL-C-39012; MIL-STD-348A/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 x 10<sup>3</sup> MΩ

Center contact resistance

≤ 3 mΩ, SMA side

≤ 1.5 mΩ, BNC side

Outer contact resistance

≤ 2 mΩ, SMA side

≤ 1 mΩ, BNC side

Test voltage

1000 V rms

Working voltage

400 V rms

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

≤ 80 W @ 2 GHz

#### Material And Plating

##### Piece Parts (SMA)

##### Material

##### Plating

Centre contact

Brass

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

Body

Brass

Nickel

Insulator

PTFE

Gasket

Silicone Rubber

Coupling nut

Brass

Nickel

Fastening nut

Brass

Nickel

Washer

Brass

Nickel

##### Piece Parts (BNC)

##### Material

##### Plating

Centre contact

Brass

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

Body

Brass

Nickel

Insulator

PTFE

Gasket

Silicone Rubber

Coupling nut

Brass

Nickel

SMA plug (male) / BNC plug (male) Bulkhead adaptor  
DC- 4GHz VSWR1.20

## AD-A1B15A-BH / 133-133

## Mechanical Data

Coupling mechanisms	SMA side	BNC side
Mating cycles	Screw-lock	Bayonet-lock
Coupling nut retention	min. 500	min. 500
Center contact captivation: axial	≥ 270 N	N/A
Coupling test torque	≥ 27 N	≥ 27 N
Recommended torque	max. 1.7 Nm	N/A
	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