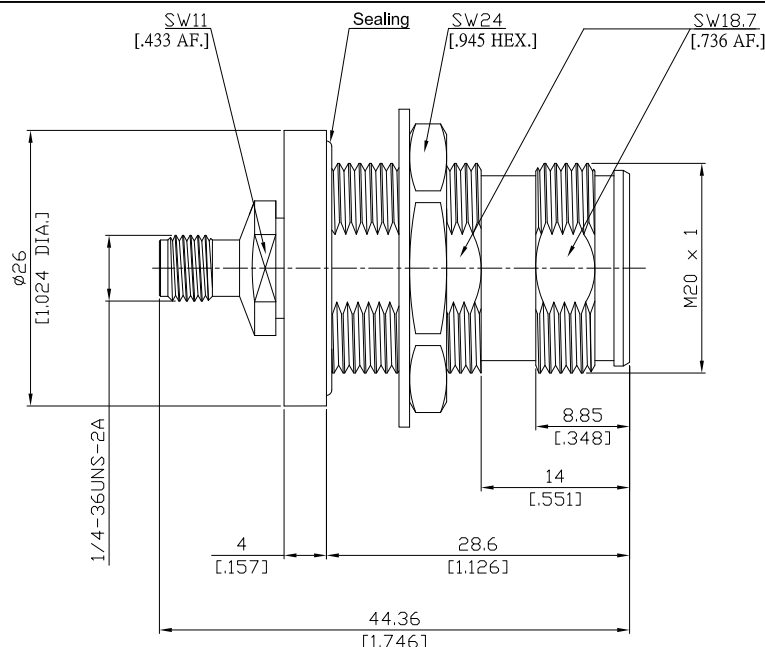


SMA Jack (female) / 4.3-10 Jack (female) Bulkhead adaptor  
DC-12GHz VSWR  $\leq 1.15$

**AD-A2431025A-BH / 94-94**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

## Interface

SMA according to

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

4.3-10 according to

IEC 61169-54

## Electrical Data

## Impedance

 $50\ \Omega$ 

Frequency

DC to 12 GHz

VSWR (Return Loss)

 $\leq 1.15$  ( $\geq 23.13$  dB)

### Insertion Loss

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

Insulation resistance

 $\geq 5 \text{ G}\Omega$ 

Center contact resistance

 $\leq 1.0 \text{ m}\Omega$ , 4.3-10 side $\leq 3 \text{ m}\Omega$ , SMA side

Outer contact resistance

 $\leq 1.0 \text{ m}\Omega$ , 4.3-10 side $\leq 2 \text{ m}\Omega$ , SMA side

Test voltage

1000 V<sub>rms</sub>

Working voltage

480 V rms

RF-leakage

 $\geq 100 \text{ dB @ DC to 1 GHz}$ 

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

 $\geq 200 \text{ W @ 2 GHz}$ 

## Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Piece Parts (4.3-10)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Fastening nut	Brass	Copper-Tin-Zinc Alloy
Washer	Brass	Copper-Tin-Zinc Alloy

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev :-

Date:  
JUL/16/2021

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SMA Jack (female) / 4.3-10 Jack (female) Bulkhead adaptor  
DC-12GHz VSWR ≤ 1.15

# AD-A2431025A-BH / 94-94

## Mechanical Data

Coupling mechanisms	SMA side	4.3-10 side
Mating cycles	Screw-lock	Screw-lock
Recommended torque	≥ 500	min. 500
	5 Nm	0.8 - 1.1 Nm

## Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	IEC 61169-1 9.4.4
Corrosion resistance	ISO 21207 method B
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 1h / 25m
RoHS	compliant
Ingress Protection (IP) Rating	IP 67 Rated

## Packing

Single or 100

## Related Document

Mounting Dimension MD144