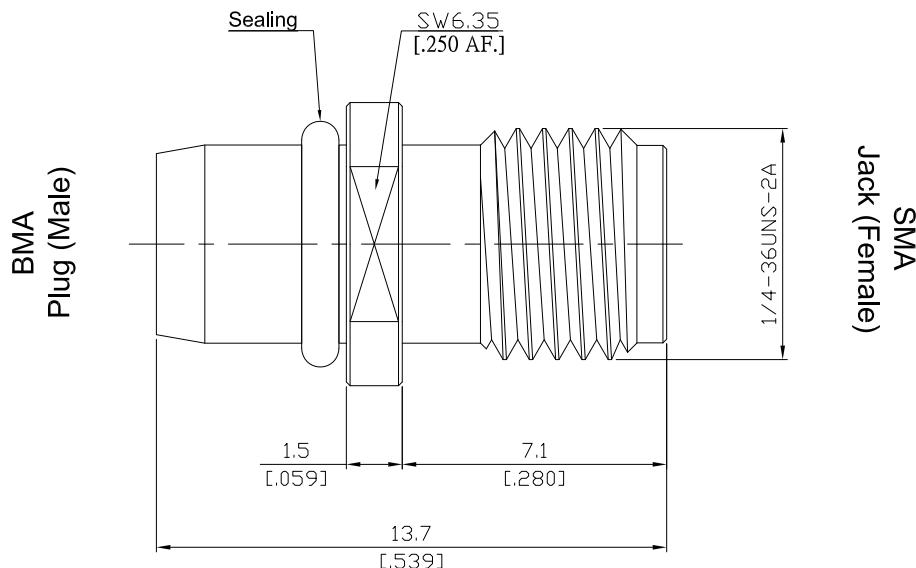


**BMA Plug (Male) to SMA Jack (Female) Adapter
DC-22GHz VSWR1.3**

AD-BA1A25A / 1XX-1X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

BMA according to
BMA mechanically compatible with
SMA according to
SMA mechanically compatible with

IEC 61169-33; MIL-STD-348/321
OSP and RPC-SP
IEC 60169-15; CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310
3.5mm and 2.92mm

Electrical Data

Impedance	50 Ω
Frequency	DC to 22 GHz
VSWR (Return Loss)	≤ 1.3 (≥ 17.69 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 5.0 mΩ, BMA Side
Outer Contact Resistance	≤ 2.5 mΩ, BMA Side
Working voltage	335 Vrms, BMA Side
Test Voltage (at sea level)	1000 Vrms, BMA Side
≤ 3.0 mΩ, SMA Side	
≤ 2.5 mΩ, SMA Side	
480 Vrms, SMA Side	
1000 Vrms, SMA Side	

Material And Plating

Piece Parts (BMA)	Material	Plating
Centre contact	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	

Piece Parts (SMA)	Material	Plating
Centre contact	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	

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: OCT/23/2024

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N-CAGE Code: SFKK0 / ISO9001 Certified

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BMA Plug (Male) to SMA Jack (Female) Adapter
DC-22GHz VSWR1.3

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Mechanical Data

Coupling mechanisms	BMA side	SMA side
Mating cycles	Slide-on	Screw-lock
Center Contact Captivation: axial	≥ 1000	≥ 500
Engagement force	≥ 27 N	≥ 27 N
Disengagement force	13.5 N	N/A
Recommended torque	2 N	N/A
	N/A	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100