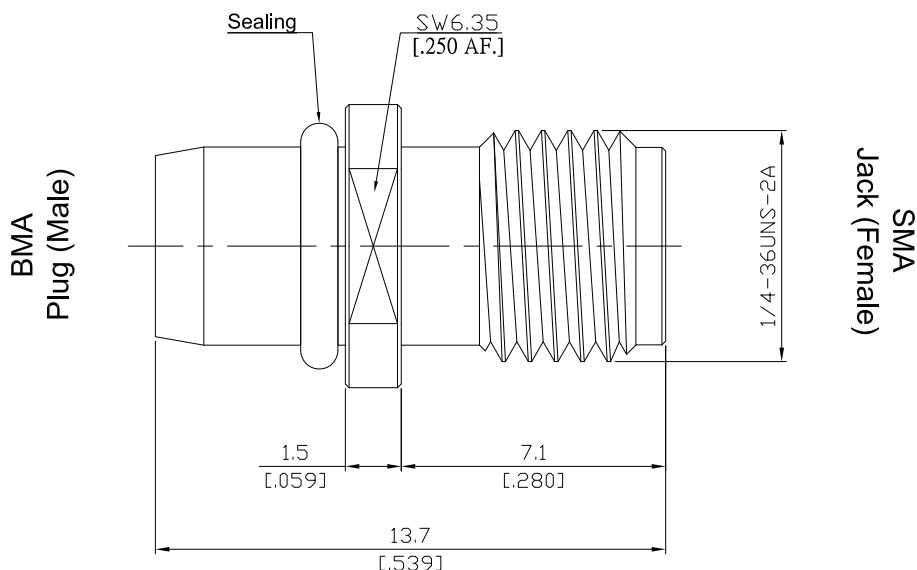


BMA Plug (Male) to SMA Jack (Female) Adapter
DC-22GHz VSWR1.3

AD-BA1A25A / 1XX-1X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

BMA according to

IEC 61169-33; MIL-STD-348/321

BMA mechanically compatible with

OSP and RPC-SP

SMA according to

IEC 60169-15; CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310

SMA mechanically compatible with

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

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

Insulation Resistance

≥ 5 G Ω

Center Contact Resistance

≤ 5.0 m Ω , BMA Side

≤ 3.0 m Ω , SMA Side

Outer Contact Resistance

≤ 2.5 m Ω , BMA Side

≤ 2.5 m Ω , SMA Side

Working voltage

335 Vrms, BMA Side

480 Vrms, SMA Side

Test Voltage (at sea level)

1000 Vrms, BMA Side

1000 Vrms, SMA Side

Material And Plating

Piece Parts (BMA)	Material	Plating
Centre contact	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Piece Parts (SMA)	Material	Plating
Centre contact	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
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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BMA Plug (Male) to SMA Jack (Female) Adapter
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Mechanical Data

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