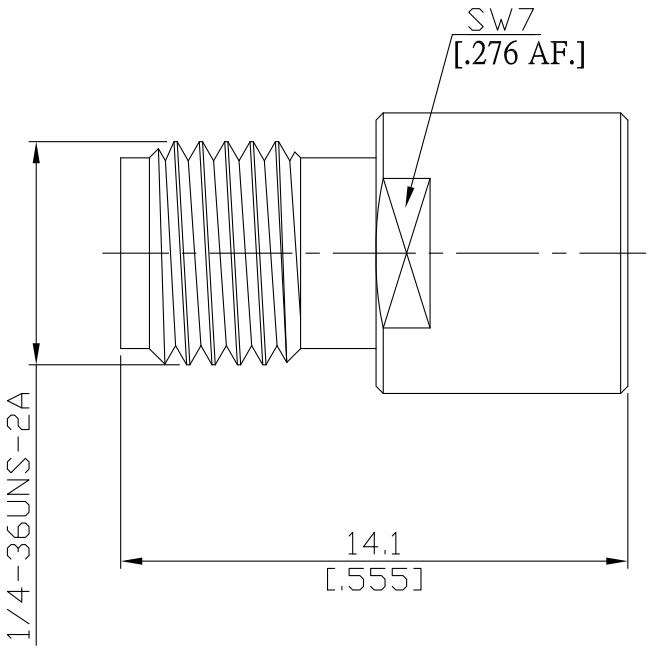
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

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

AD-A2BA25A / 1X-1X



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

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
BMA according to	IEC 61169-33; MIL-STD-348/321
BMA mechanically compatible with	OSP and RPC-SP

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	≤ 3.0 mΩ, SMA Side	≤ 5.0 mΩ, BMA Side
Outer Contact Resistance	≤ 2.5 mΩ, SMA Side	≤ 2.5 mΩ, BMA Side
Working voltage	480 Vrms, SMA Side	335 Vrms, BMA Side
Test Voltage (at sea level)	1000 Vrms, SMA Side	1000 Vrms, BMA Side

Material And Plating

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	
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	

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Mechanical Data

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

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