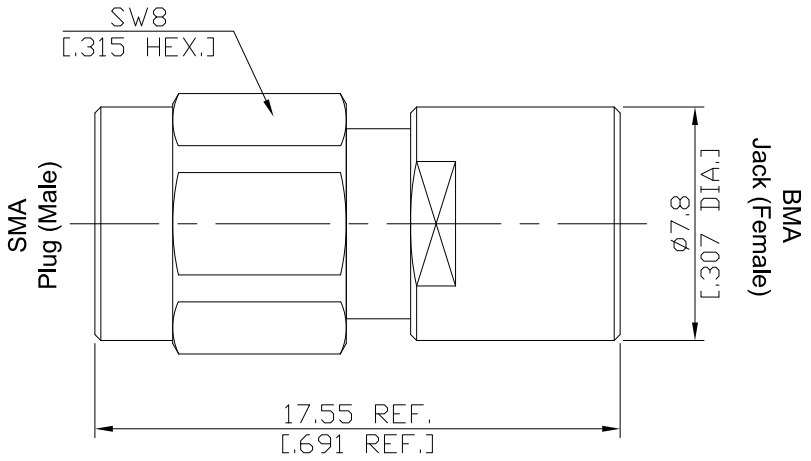
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA Plug (Male) / BMA Jack (Female) Adapter
DC-18GHz VSWR1.2

AD-A1BA25A / 9XX-9X



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

Interface

	SMA Side	BMA Side
Mechanically compatible with	3.5mm and 2.92mm	
According to	IEC 60169-15, MIL-STD-348B/310	MIL-STD-348B/321; IEC 60169-33

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.2 (≥ 20.83 dB)
Insertion Loss	≤ 0.07 x √F (GHz) dB
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Insulation Resistance	≥ 5 GΩ
Test Voltage (at sea level)	1000 V rms
Working Voltage (at sea level)	335 V rms

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated

Piece Parts (BMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PTFE	

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Mechanical Data

	SMA Side	BMA Side
Coupling Mechanisms	Screw-lock	Slide-on
Mating Cycles	min. 500	min. 1000
Center Contact Captivation	≥ 27 N	≥ 27 N
Coupling Test Torque	max. 1.70 Nm	N/A
Recommended Torque	0.8 Nm to 1.1 Nm	N/A
Engagement Force	N/A	≤ 13.5 N
Disengagement Force	N/A	≥ 2 N

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

Standard	Single or 100

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