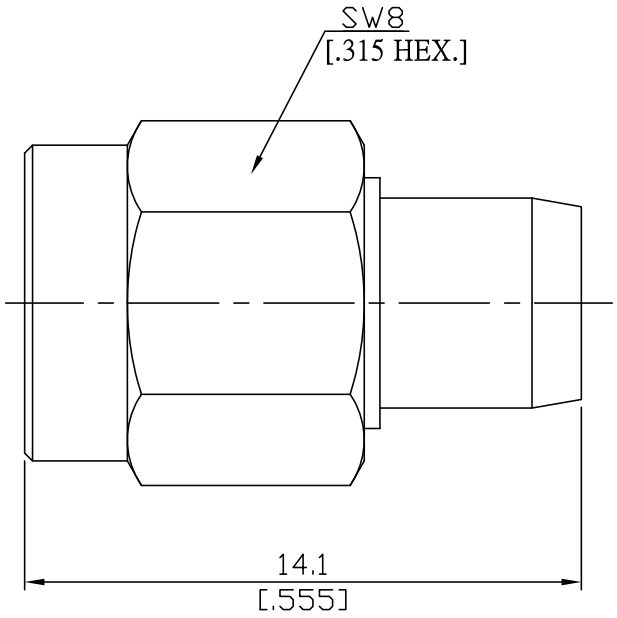
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA plug (male) / BMA plug (male) Adapter
DC-26.5GHz VSWR1.15

AD-A1BA15A / 1XX-1X



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	OSP and RPC-SP
According to	IEC 61169-15, MIL-STD-348B/310	IEC 61169-33, MIL-STD-348B/326

Electrical Data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.15 dB)
Insertion Loss	≤ 0.04 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Test Voltage (at sea level)	1000 V rms
Working Voltage (at sea level)	335 V rms
RF Leakage	≥ 85 dB up to 1 GHz

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	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
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

	2.92mm Side	BMA Side
Coupling Mechanisms	Screw-lock	Slide-on
Mating Cycles	≥ 500	≥ 1000
Center Contact Captivation	≥ 27 N	≥ 27 N
Coupling Test Torque	1.70 Nm max.	None
Recommended Torque	0.9 Nm	None
Engagement Force	None	≤ 13.5 N
Disengagement Force	None	≥ 2 N
Misalignment	radial 0.15 mm min.	

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
Weight	N/A

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