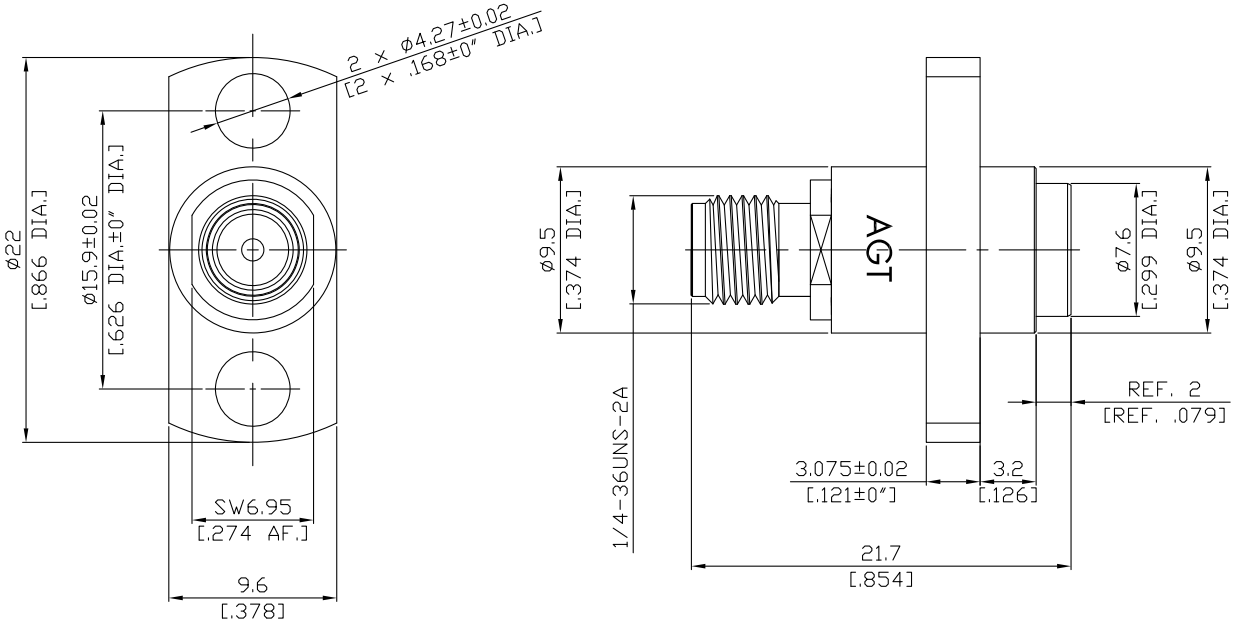
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

BMA Jack (Female) to SMA Jack (Female)
2-Hole Panel Adapter Slide-On Adapter, DC-18 GHz, VSWR ≤ 1.25

AD-A2BA25A-PT-AGT / 91X-91



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

Interface

SMA according to	IEC 60169-15; MIL-STD-348B/310
BMA according to	IEC 61169-33; MIL-STD-348A/321

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion loss	≤ 0.05 dB x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 4 mΩ
Outer Contact Resistance	≤ 2 mΩ
Withstanding Voltage (at sea level; min.)	1000 V rms
RF High Potential (at sea level; min. @ 5 MHz)	670 V rms
RF Leakage (min.)	-60 dB @ 2.3 GHz

Material And Plating

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

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Mechanical Data

	SMA side	BMA side
Coupling mechanisms	Screw-lock	Slide-On
Mating cycles	≥ 500	≥ 500
Center Contact Captivation: axial	≥ 6 lbs	≥ 6 lbs
Coupling test torque	1.70 Nm	N/A
Recommended torque	0.70 Nm to 1.10 Nm	N/A

Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Meth. 107, Cond. C
Shock	MIL-STD-202, Meth. 213, Cond. I
Corrosion	MIL-STD-202, Meth. 101, Cond. B (salt spray: 5%)
Vibration	MIL-STD-202, Meth. 204, Cond. D
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Singleor 100

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