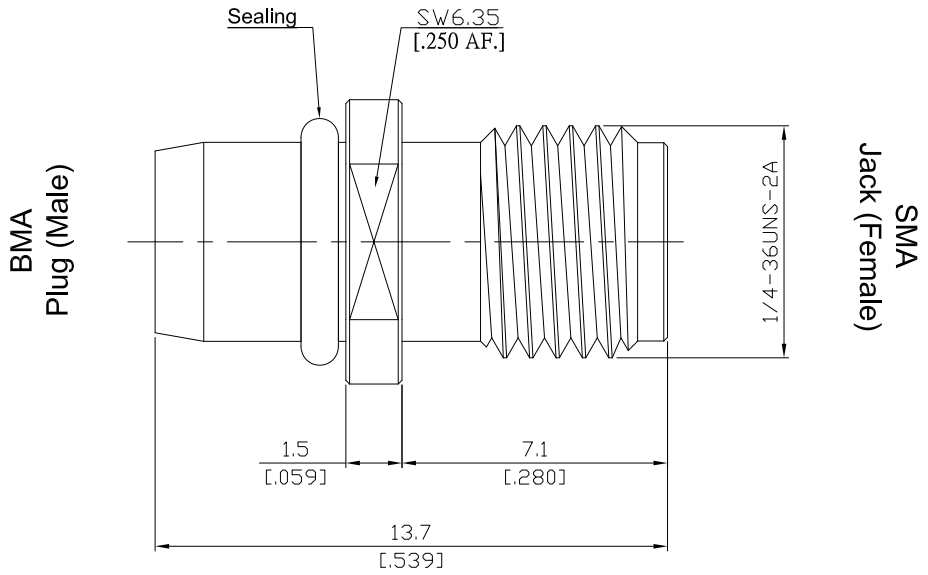
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

BMA Plug (Male) to SMA Jack (Female) Adapter
DC-22GHz VSWR1.15

AD-BA1A25A / 9X-9X



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

Interface

BMA according to	IEC 61169-33; MIL-STD-348B/321
BMA mechanically compatible with	OSP and RPC-SP
SMA according to	IEC 60169-15; MIL-STD-348B/310
SMA mechanically compatible with	3.5mm and 2.92mm

Electrical Data

Impedance	50 Ω
Frequency	DC to 22 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.1 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Operating Voltage	350 Vrms
Dielectric Withstanding Voltage	1000 Vrms
Insulation Resistance	5000 MΩ

Material And Plating

Piece Parts (BMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	

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

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Mechanical Data

	BMA side	SMA side
Coupling mechanisms	Slide-on	Screw-lock
Mating cycles	≥ 1000	≥ 500
Recommended torque	None	0.9 Nm
Engagement force	13.5 N	None
Disengagement force	2 N	None
Recommended torque	N/A	0.5 Nm

Environmental Data

Temperature range	-65°C to +125°C
RoHS	compliant

Packing

Single or 100

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Vector Network Analyzer (VNA)	Keysight N5235A
Calibration Kit	Keysight 85052D
Test Method	Port 1: BMA Jack (Female)
	Port 2: SMA Plug (Male)
	Port 1 + DUT + Port 2