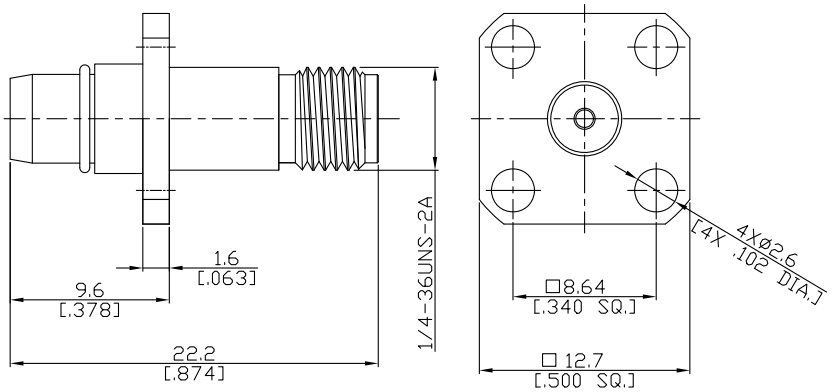
ROSNOL
RF/Microwave Interconnect

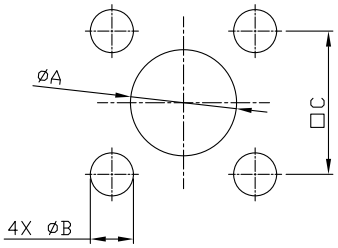
Technical Data Sheet

BMA Plug (Male) to SMA Jack (Female)
Panel 4 Hole Flange Mount Adapter DC-22GHz VSWR1.3

AD-BA1A25A-PF / 91-91



Mounting Dimension



	mm		inch	
	Max.	Min.	Max.	Min.
A	6.6	6.5	.260	.256
B	2.7	2.6	.106	.102
C	8.69	8.59	.342	.338

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

Interface

BMA according to	IEC 61169-33; MIL-STD-348B/321
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

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

Material And Plating

Piece Parts (BMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 100 μinch)
Body	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 100 μinch)
Insulator	PTFE	
Piece Parts (SMA)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 100 μinch)
Body	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 100 μinch)
Insulator	PTFE	

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Mechanical Data

	BMA side	SMA side
Coupling mechanisms	Slide-on	Screw-lock
Mating cycles	≥ 500	≥ 500
Center Contact Captivation: axial	≥ 27 N	≥ 27 N
Engagement force	13.5 N	N/A
Disengagement force	2 N	N/A
Recommended torque	N/A	0.8 Nm to 1.1 Nm

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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