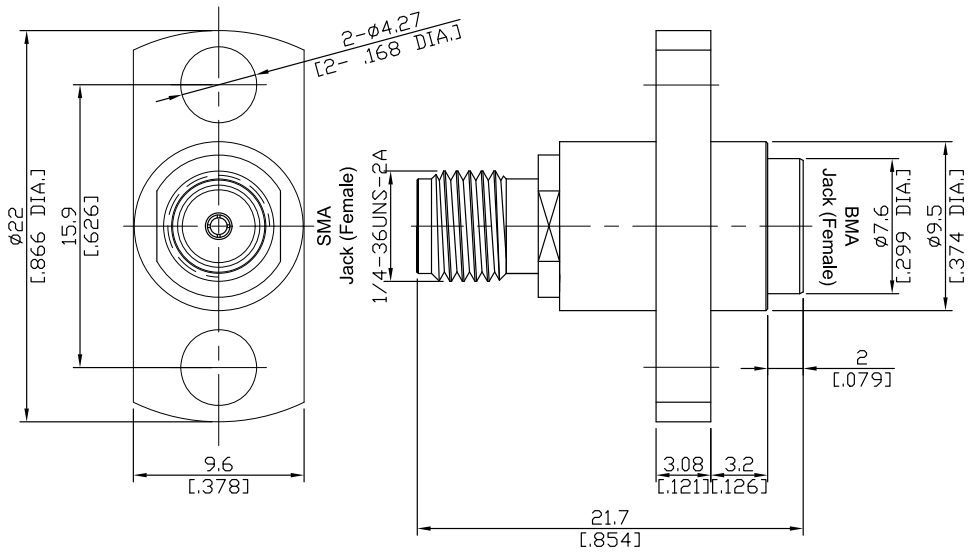
ROSNOL®
RF/Microwave Interconnect

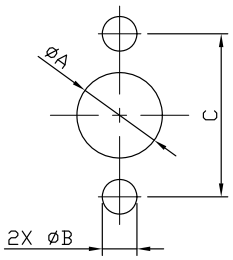
Technical Data Sheet

SMA Jack (Female) to BMA Jack (Female) 2-Hole Flange-Mount Adapter, DC–18 GHz, VSWR 1.25

AD-A2BA25A-PT / 91-91X



Mounting Dimension



	mm		inch	
	Max.	Min.	Max.	Min.
A	9.6	9.55	.378	.376
B	4.3	4.2	.169	.165
C	15.95	15.85	.628	.624

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

Interface

SMA Side According To	IEC 60169-15; CECC22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110
SMA Mechanically Compatible With	3.5mm and 2.92mm
BMA Side According To	MIL-STD-348B/321; IEC 60169-33
BMA Mechanically Compatible With	OSP and RPC-SP

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ (SMA Side)	≤ 5.0 mΩ (BMA Side)
Outer Contact Resistance	≤ 2.5 mΩ (SMA Side)	≤ 2.5 mΩ (BMA Side)
Working Voltage	480 Vrms (SMA Side)	335 Vrms (BMA Side)
Test Voltage (at sea level)	1000 Vrms	

Material and Plating

Piece Parts (SMA)	Material	Plating
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	
Piece Parts (BMA)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Outer Body	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Inner Body	Stainless Steel	Passivated
Insulator	PTFE	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

SMA Jack (Female) to BMA Jack (Female) 2-Hole Flange-Mount Adapter, DC–18 GHz, VSWR 1.25

AD-A2BA25A-PT / 91-91X

Mechanical Data

	SMA Side	BMA Side
Coupling Mechanisms	Screw-On	Slide-On
Mating Cycles	≥ 500	≥ 1000
Center Contact Captivation: axial	≥ 27 N	≥ 27 N
Engagement Force	N/A	13.5 N
Disengagement Force	N/A	2 N
Recommended Torque	0.57 Nm	N/A

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

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified