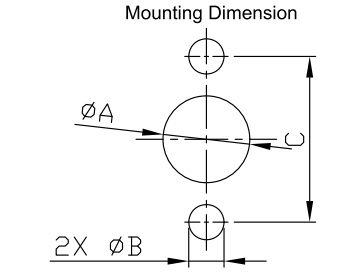
ROSNOL
RF/Microwave Interconnect

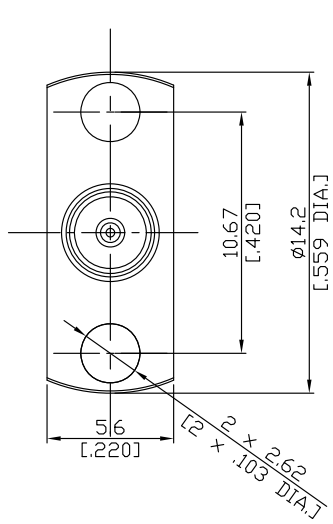
Technical Data Sheet

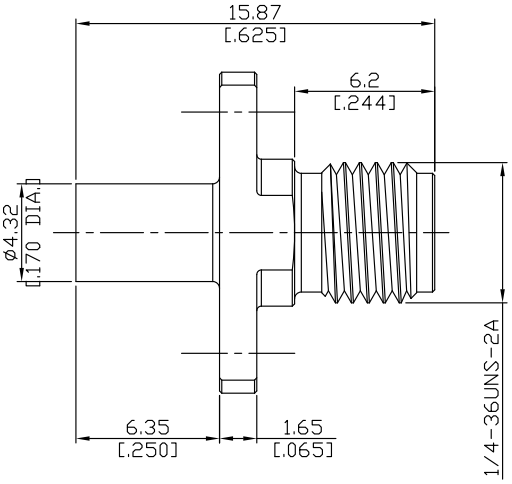
SMP Smooth Bore plug (male) / SMA jack (female)
Panel 2 Hole Flange Mount Adapter, DC-18 GHz, VSWR ≤ 1.20

AD-PSB1A25A-PT / 9X-9X



	mm		inch	
	Max.	Min.	Max.	Min.
A	4.5	4.4	.177	.173
B	2.65	2.6	.104	.102
C	10.72	10.62	.422	.418





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

Interface

SMA according to	IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310
SMP (Smooth Bore) according to	MIL-PRF-31031;SMP interface MIL-STD-348

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 6.0 mΩ, SMP side;	≤ 3 mΩ, SMA side
Outer contact resistance	≤ 2.0 mΩ, SMP side;	≤ 2 mΩ, SMA side
Test voltage	500 V rms	
Working voltage	335 V rms	
Contact Current	1.2A DC max.	

Material And Plating

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

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

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Mechanical Data

	SMP Side	SMA Side
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 27 N	≥ 27 N
Engagement force		N/A
- Smooth Bore	≤ 9 N	
Disengagement force		N/A
- Smooth Bore	≥ 2.2 N	
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100

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