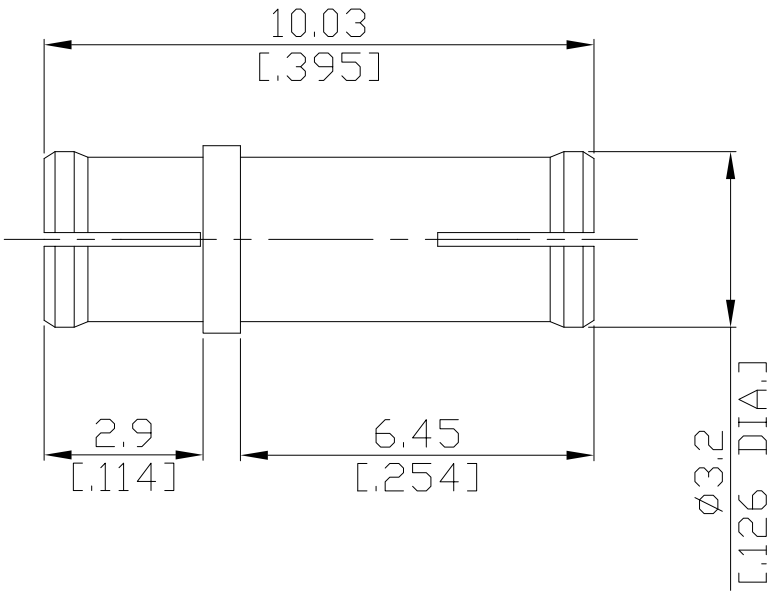
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

SMP jack (female) / SMP jack (female) Straight Adaptor
DC- 40 GHz, VSWR ≤ 1.50

AD-P2P25A / 99-99



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

Interface

according to	MIL-STD-348B/326

Electrical Data

Impedance	50 Ω
Frequency	DC to 40 GHz
VSWR (Return Loss)	26.5 to 40 GHz: typ. <1.50 (> 13.98 dB)
Insertion Loss	≤ 0.06 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	500 V rms
Working voltage	335 V rms
Power handling	65 W @ 2.2 GHz
RF-leakage	≥ 85 dB @ DC to 4 GHz

Material And Plating

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

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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

Coupling mechanisms	Snap-lock		
Mating cycles	Full detent: ≥ 100	Smooth bore: ≥ 500	Smooth bore, Catchers mitt: ≥ 1000
Center contact captivation: axial	≥ 7 N		
Engagement force	Full detent: ≤ 68 N	Limited detent: ≤ 45 N	Smooth bore, Catchers mitt: ≤ 9 N
Disengagement force	Full detent: ≥ 22 N	Limited detent: ≥ 9 N	Smooth bore, Catchers mitt: ≥ 2.2 N

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

Singleor 100

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