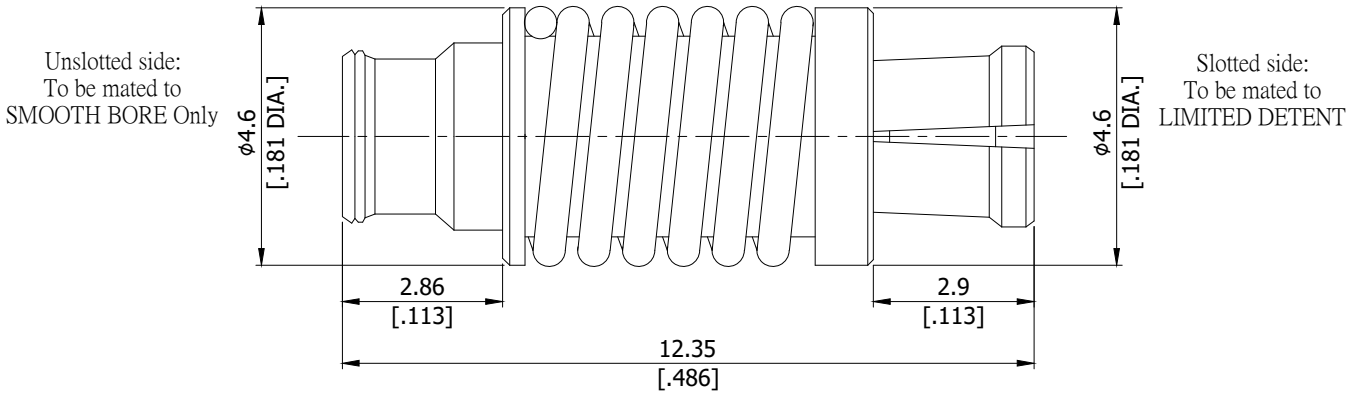
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMP Jack (Female) / SMP Jack (Female) Straight Adapter
DC-40 GHz VSWR 1.4

AD-P2P2B25A / 99-9H



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)	≤1.4 (≥ 15.6 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	

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

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Mechanical Data			
Coupling mechanisms	Snap-lock		
Mating cycles	Smooth bore, Catchers mitt: ≥ 1000	Limited detent: ≥ 500	Full detent: ≥ 100
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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