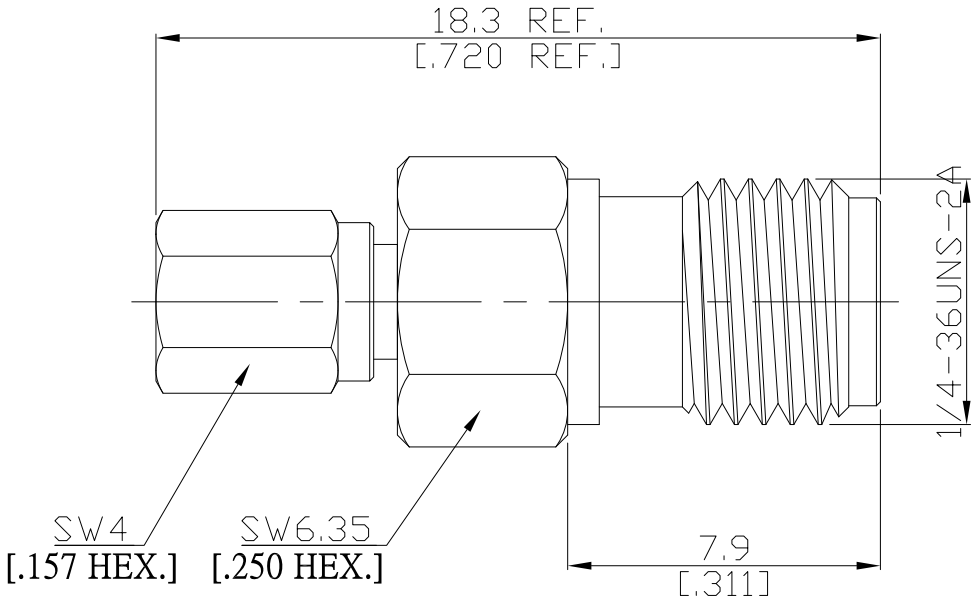
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SSMC plug (male) / SMA jack (female)
Straight adaptor DC- 12.4 GHz VSWR ≤ 1.30

AD-SSMC1A25A / 933-93



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

Interface

SSMC according to	MIL-STD-348A;IEC 60169-20;MIL-PRF-39012
SMA according to	IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310

Electrical Data

Impedance	50 Ω	
Frequency	DC to 12.4 GHz	
VSWR (Return Loss)	≤ 1.3 (≥ 17.69 dB)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 1 GΩ	
Center contact resistance	≤ 5.0 mΩ, MMCX side;	≤ 3 mΩ, SMA side
Outer contact resistance	≤ 2.5 mΩ, MMCX side;	≤ 2mΩ, SMA side
Test voltage	750 V rms	
Working voltage	335 V rms	
Contact Current	1.5A DC max.	

Material And Plating

Piece Parts (SSMC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Nickel
Insulator	PTFE	
Coupling nut	Brass	Nickel

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

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Mechanical Data

	SSMC side	SMA side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	≥ 500	≥ 500
Center contact captivation: axial	≥ 27 N	≥ 27 N
Engagement force	N/A	N/A
Disengagement force	N/A	N/A
Coupling test torque	max. 0.3 Nm	max. 1.7 Nm
Recommended torque	0.20 Nm to 0.23 Nm	0.8 Nm to 1.1 Nm

Environmental Data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition D, IEC 60068-2-6
Corrosion	MIL-STD-202, Method 101, Condition B
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100

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