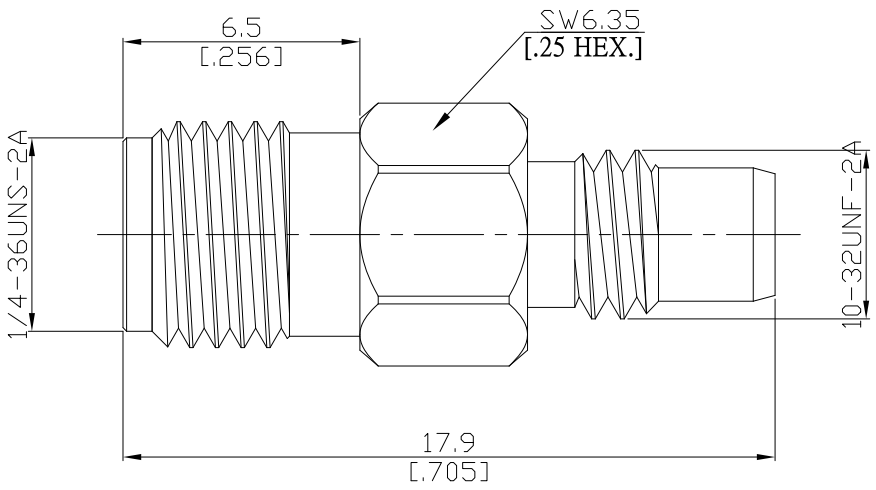
ROSNOL RF/Microwave Interconnect

Technical Data Sheet

SMA jack (female) / SMC jack (female)
Adapter DC-10 GHz VSWR1.3

AD-A2MC25A / 91-91



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

Interface

SMA side according to	IEC 60169-15;CECC 22110; MIL-PRF-39012 SMA; MIL-STD-348/310
SMC side according to	IEC 60169-9;CECC 22140;MIL-PRF-39012

Electrical Data

Impedance	50 Ω	
Frequency	DC to 10 GHz	
VSWR (Return Loss)	≤ 1.3 (≥ 17.69 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 1 GΩ	
Center Contact Resistance	≤ 3 mΩ, SMA side	≤ 5 mΩ, SMC side
Outer Contact Resistance	≤ 2 mΩ, SMA side	≤ 2.5 mΩ, SMC side
Test voltage	750 V rms, 50 Hz, at sea level	
Working voltage	≤ 250 V rms, 50 Hz, at sea level	
RF-leakage	≥ 90 dB up to 1 GHz	

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 (SMC)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	

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Mechanical Data

	SMA Side	SMC Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	min. 500	min. 500
Coupling nut retention	N/A	N/A
Coupling test torque	max. 1.7 Nm	max. 0.71 Nm
Recommended torque	0.8 Nm to 1.1 Nm	0.25 Nm to 0.35 Nm
Center contact captivation: axial	≥ 10 N	≥ 10 N

Environmental Data

Temperature Range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Moisture resistance	MIL-STD-202, Meth. 106
Corrosion	MIL-STD-202, Meth. 101, Cond B
RoHS	compliant

Packing

Single or 100

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