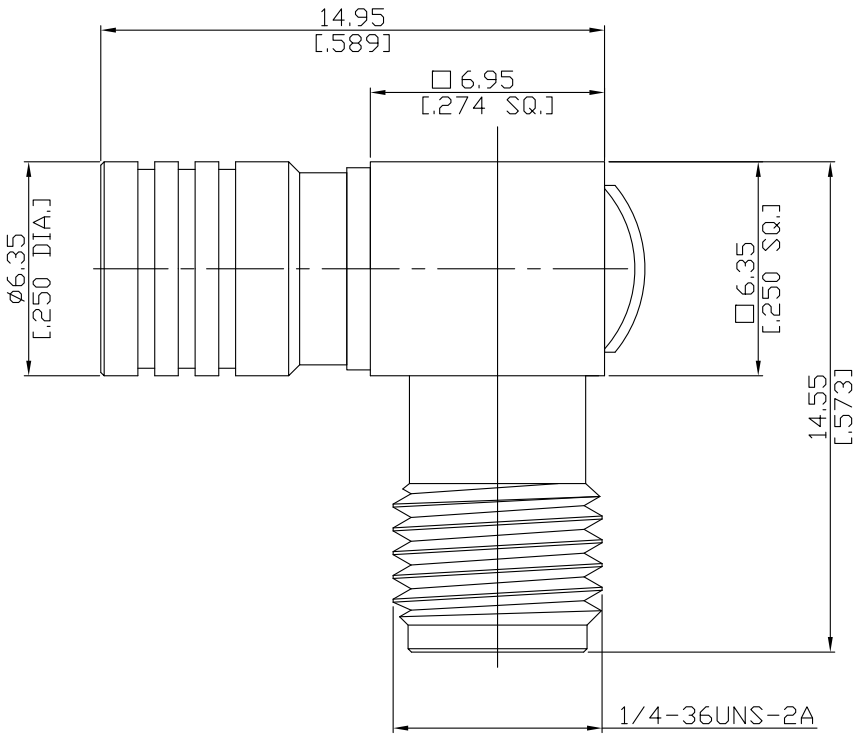
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

SMB plug (male) / SMA jack (female) L-adaptor DC-4 GHz VSWR≤ 1.09

ADL-S1A25A / 911-91



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

Interface

SMB according to	IEC 60169-10; MIL-STD-348B/311
SMA according to	IEC 61169-16; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω	
Frequency	DC to 4 GHz	
VSWR	≤ 1.09 (≥ 27 dB)	
Insertion loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 1 GΩ	
Center contact resistance	≤ 5 mΩ, SMB side	≤ 3 mΩ, SMA side
Outer contact resistance	≤ 2.5 mΩ, SMB side	≤ 2 mΩ, SMA side
Test voltage	750 V rms, 50 Hz, at sea level	
Working voltage	≤ 250 V rms, 50 Hz, at sea level	
Contact current	1.5 A DC typ.	
RF-leakage	≥ 55 dB up to 1 GHz	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Material And Plating

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

Mechanical Data

	SMB side	SMA side
Coupling mechanisms	Snap-lock	Screw-lock
Mating cycles	min. 500	min. 500
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.8 Nm to 1.1 Nm
Center contact captivation: axial	≥ 10 N	≥ 10 N
Engagement force	≤ 63 N A	N/A
Disengagement force	8 N min. to 63 N max.	N/A

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. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Singleor 100

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