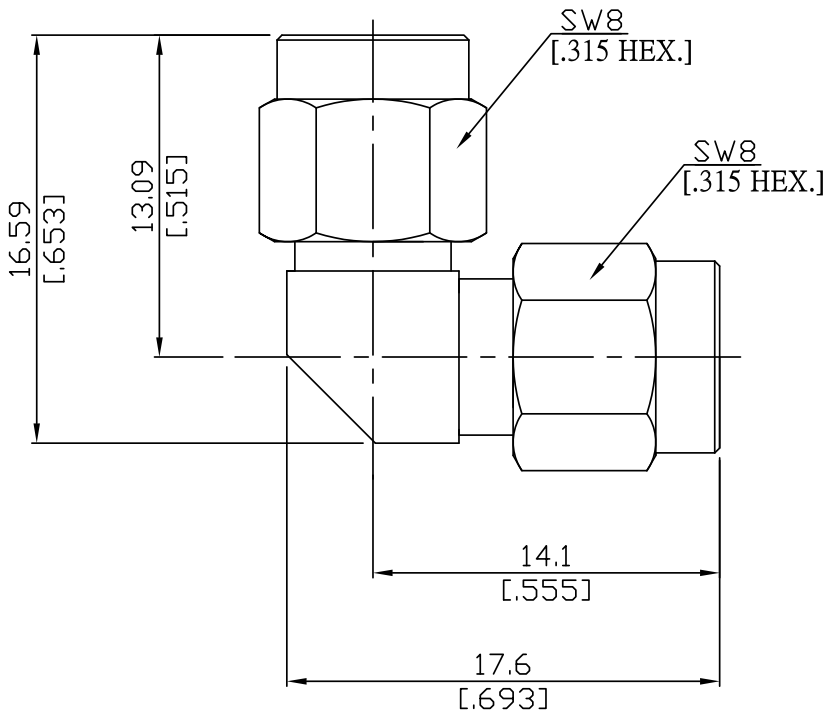
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA plug (male) / SMA plug (male)L-adaptor
DC-18GHz VSWR1.22

ASL-A1A15A-CR / 911-911



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

Interface	
according to	IEC 60169-15; MIL-STD-348B/310
Electrical Data	
Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.22 (≥ 20.1 dB)
Insertion Loss	≤ 0.03 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3 m MΩ
Outer contact resistance	≤ 2 m MΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Material And Plating

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

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

Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Coupling nut retention	≥ 270 N
Center contact captivation: axial	≥ 17 Ncm
radial	≥ 3 Nm
Coupling test torque	max. 1.7 Nm
Recommended torque	0.80 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Singleor 100

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