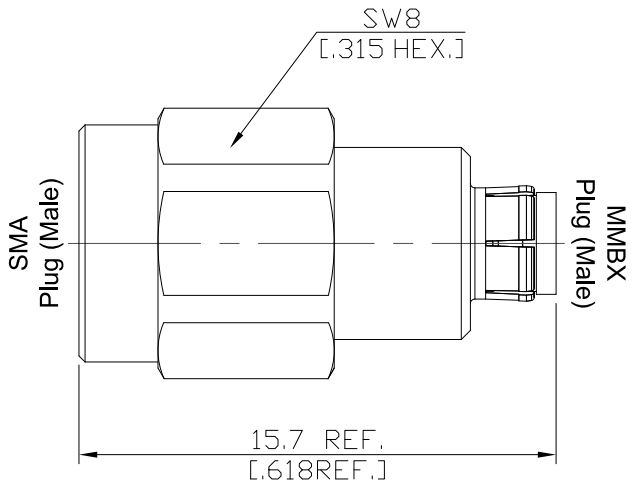
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA Plug (Male) to MMBX Plug (Male) Straight Adapter, DC-12.4 GHz VSWR 1.2

AD-A1BX15A / 911-9H



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

Interface

SMA according to	IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110
MMBX according to	N/A

Electrical Data

Impedance	50 Ω	
Frequency	DC to12.4 GHz	
VSWR (Return Loss)	≤ 1.35 (≥ 16.54 dB)	
Insertion loss	≤ 0.1 x √F (GHz) dB	
Insulation resistance	≥ 1 GΩ	
Center contact resistance	≤ 3 mΩ, SMA side	≤ 5 mΩ, MMBX side;
Outer contact resistance	≤ 2 mΩ, SMA side	≤ 1 mΩ, MMBX side;
Test voltage	500 V rms	
Working voltage	330 V rms	

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	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Piece Parts (MMBX)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Phosphor Bronze	Gold plating (Non-magnetic nickel-phosphorus underplating)Gold
Insulator	PTFE	

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Mechanical Data

	SMA side	MMBX side
Coupling mechanisms	Screw-On	Snap-On
Mating cycles	≥ 500	≥ 500
Center contact captivation: axial	≥ 27 N	≥ 10 N
Engagement force	N/A	≥ 30 N
Disengagement force	N/A	8 N min. to 30 N max.
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	0.57 Nm	N/A

Environmental Data

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition A
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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