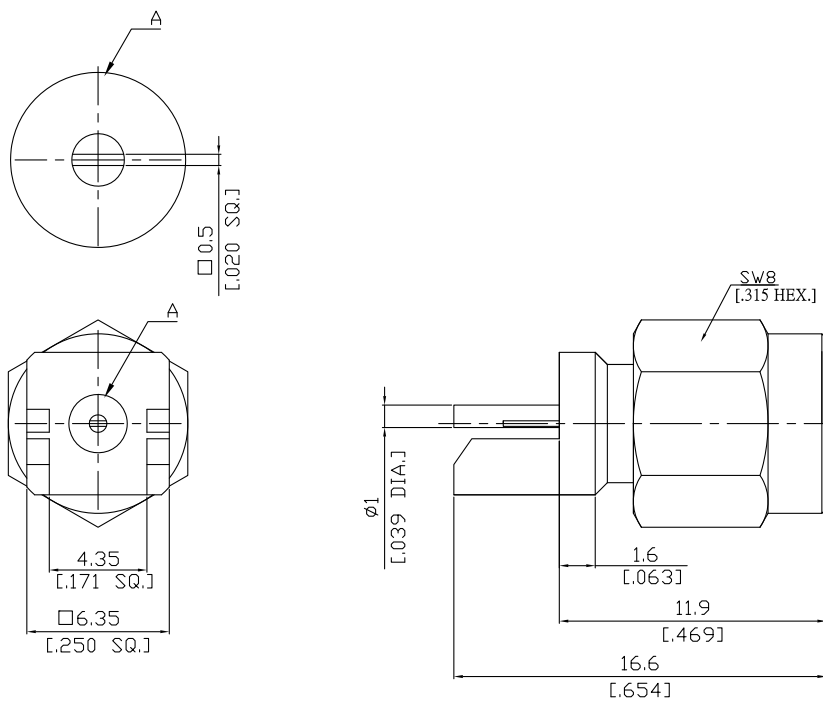


SMA Plug (male) Straight PCB End Launch Connector
Teflon Design DC-18GHz

SMA1H1B50-0050A / 111



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC60169-15, MIL-STD-348B/310

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤1.20 (≥ 20.83 dB) @ 6 GHz	≤1.30 (≥ 17.69 dB) @ 18 GHz
Insertion Loss	≤ 0.03 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3.0 mΩ	
Outer Contact Resistance	≤ 2.0 mΩ	
Test Voltage (at sea level)	1000 V rms	
Working Voltage (at sea level)	480 V rms	
Power Handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz	≤ 100 W @ 10 GHz
RF Leakage	≤ 100 dB up to 1 GHz	

- VSWR in application depends decisive on PCB layout -

Material And Plating

Connector parts	Material	Plating
Centre contact	Brass	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)

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 20 N
Board mounting type	End Launch
Coupling test torque	max. 1.7 Nm
Recommended torque	0.8 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

Standard	Single or 100
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