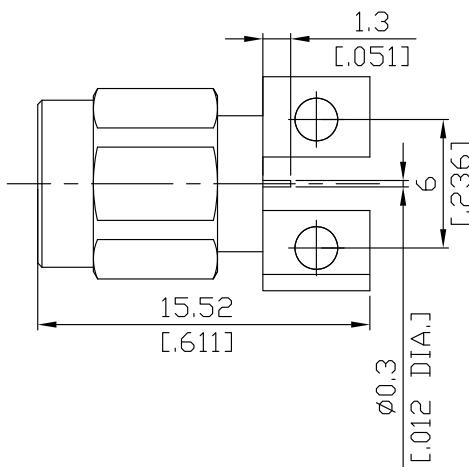
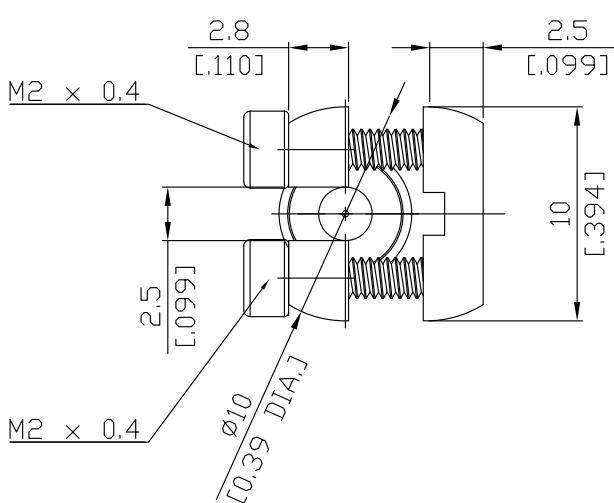


SMA Plug (Male) PCB End Launch Connector Solder Attachment (T: 4mm Max.)
 with Circular End (\varnothing : 0.3mm, L: 1.3mm); DC-18GHz

SMA1H2A50-1552A / 911


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
Insertion Loss	$\leq 0.03 \times \sqrt{F} \text{ (GHz)} \text{ dB}$
Insulation Resistance	$\geq 5 \text{ G}\Omega$
Center Contact Resistance	$\leq 3.0 \text{ m}\Omega$
Outer Contact Resistance	$\leq 2.0 \text{ m}\Omega$
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)	$\leq 200 \text{ W} @ 2 \text{ GHz}$
RF Leakage	$\leq 100 \text{ dB up to 1 GHz}$

- VSWR in application depends decisive on PCB layout -

Material And Plating

Connector parts	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)

SMA Plug (Male) PCB End Launch Connector Solder Attachment (T: 4mm Max.)
with Circular End (Ø: 0.3mm, L: 1.3mm); DC-18GHz

SMA1H2A50-1552A / 911

Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 20 N
	≥ 1 Ncm
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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