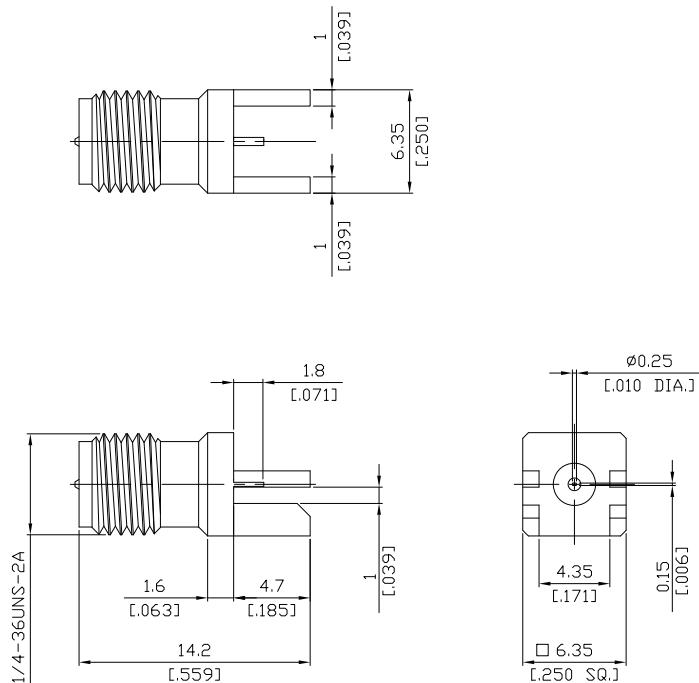


Reverse Polarity SMA Jack (RP female) PCB End Launch Straight
Teflon Design DC-18 GHz

SMA7H1B50-0100A / H1



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
Insertion loss	$\leq 0.03 \times \sqrt{f}$ (GHz) dB
Insulation resistance	$\geq 5 \text{ G}\Omega$
Center contact resistance	$\leq 3 \text{ m}\Omega$
Outer contact resistance	$\leq 2 \text{ m}\Omega$
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling	$\leq 200 \text{ W}$ @ 2 GHz
RF-leakage	$\geq 100 \text{ dB}$ up to 1 GHz
$\leq 100 \text{ W}$ @ 10 GHz	

Material And Plating

Connector parts	Material	Plating
Centre contact	Phosphor Bronze	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	

Reverse Polarity SMA Jack (RP female) PCB End Launch Straight
Teflon Design DC-18 GHz**SMA7H1B50-0100A / H1****Mechanical Data**

Coupling mechanisms	Screw-lock
Mating cycles	min. 500
Center contact captivation: axial	≥ 27 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

Single or 100