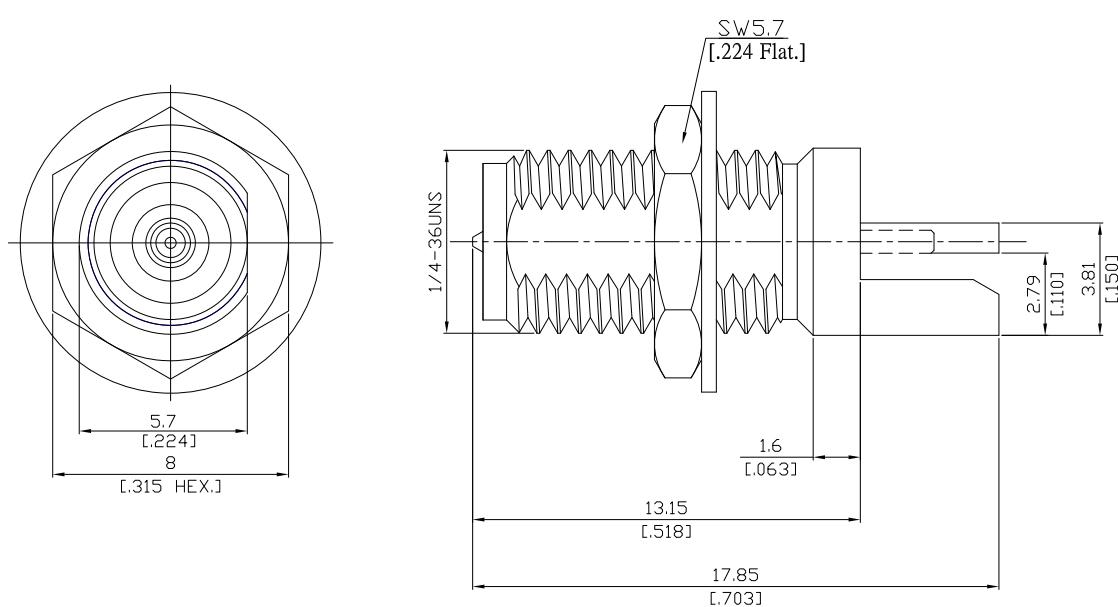


Reverse Polarity SMA Jack (RP female) PCB End Launch Straight Coaxial Pin
Teflon Design For Bulkhead DC-18 GHz

SMA7H1C50-3543A / 11



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

$\leq 100 \text{ W}$ @ 10 GHz

RF-leakage

$\geq 100 \text{ dB}$ up to 1 GHz

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

Gold plating, 3 μinch

(Non-magnetic nickel-phosphorus underplating, 80 μinch)

Fastening nut

Brass

Gold plating, 3 μinch

(Non-magnetic nickel-phosphorus underplating, 80 μinch)

Washer

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	≥ 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