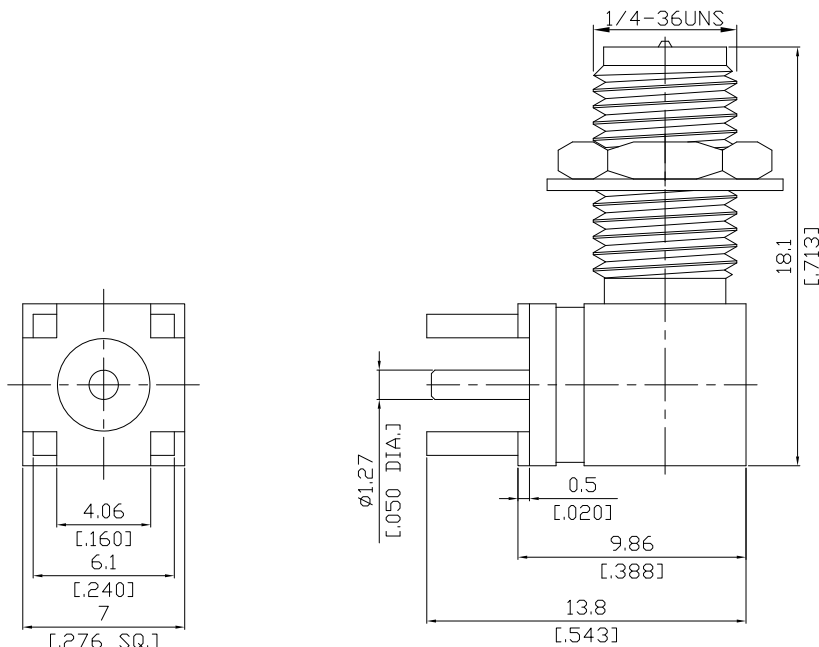


Reverse Polarity SMA jack (RP Female) PCB Through Holes  
Right Angle For Bulkhead Jack DC-18 GHz

**SMA7IA59-1700A / 11**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

Derived from

IEC 60169-15; MIL-STD-348B/310

**Electrical Data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
VSWR (Return Loss)	$\leq 1.15 + .015F$ (GHz)
Insertion Loss	$\leq 0.04 \times \sqrt{F}$ (GHz) dB
Insulation Resistance	$\geq 5$ G $\Omega$
Center Contact Resistance	$\leq 3$ m $\Omega$
Outer Contact Resistance	$\leq 2$ m $\Omega$
Test Voltage (at sea level)	1000 V rms
Working Voltage (at sea level)	480 V rms

- Electrical performance guaranteed for connector only -

**Material And Plating**

Piece Parts	Material	Plating
Centre contact	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Insulator	PTFE	
Fastening nut	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Washer	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)

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## Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Center Contact Captivation: axial	≥ 27 N
Coupling Test Torque	1.7 Nm max.
Recommended Torque	0.90 Nm
Board mounting type	Through Holes

## 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