

## Product Description

**Santa Fe SM-Q2-C** is a through hole and screw mount ISM antenna and is ideal for quick installation on flat surface for the license free short-range devices. The low-profile ISM antenna includes a 3M tape on the antenna base and the cable is integrated into the base. Excellent omni-directional coverage supports wireless devices operating in ISM 915MHz. The antenna design offers optimal performance and reliability with minimum loss. The standard cable option is RG-174 or CFD-100 low loss cable ended with SMA straight plug connector. Other connector types are available.

Customized antenna spec and design are welcome to discuss; please contact us for further information and detail.

## Highlight

- ✓ Compact design combined with high performance antenna element
- ✓ Cable direct entry through base terminated by a RF connector.
- ✓ Customized color for the housing or threaded stud length to fit the installation is available.
- ✓ Ground independent design

## Feature

- ✓ Central screw mount, easy installation.
- ✓ ISM 868MHz, 2.4GHz and 5.8GHz are optional

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# SM-Q2-C

## Compact & Rugged Screw Mount ISM Antenna



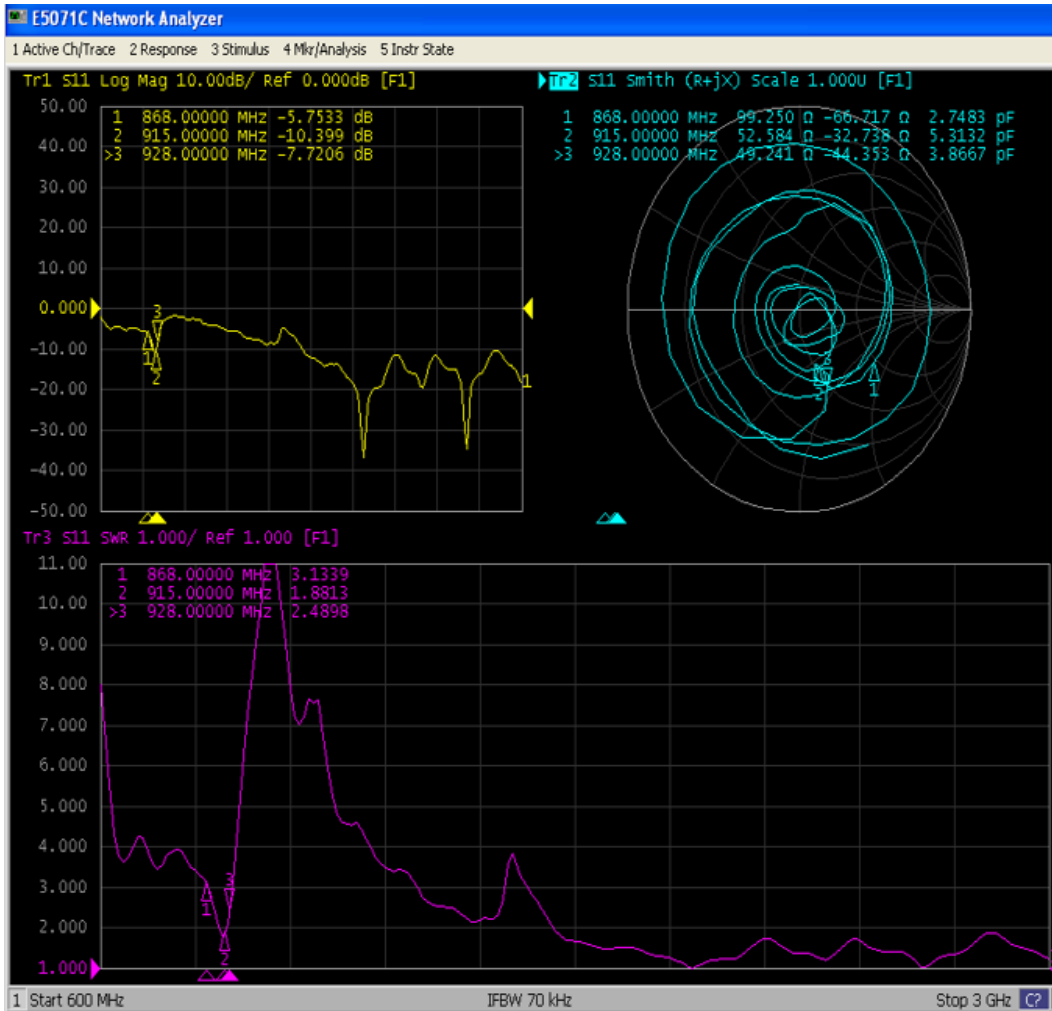
### Mechanical Specification

<b>Dimension</b>	48mm(dia.) x 82mm
<b>Mounting</b>	Through hole mount with a 3M tape
<b>Cable</b>	RG-174 or CFD-100 low loss cable
<b>Connector</b>	SMA type plug ** Other RF connectors are optional
<b>Enclosure</b>	ABS
<b>Operation Temperature</b>	-35°C ~ +80°C
<b>Storage Temperature</b>	-40°C ~ +85°C
<b>Weight</b>	95g

### Electrical Specification - ISM

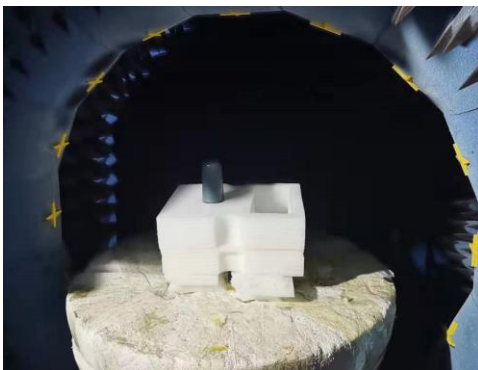
<b>Frequency</b>	902 ~ 928MHz (centered @ 915MHz)
<b>Gain</b>	0.20 dBi @ 915MHz
<b>Efficiency</b>	59.40% @ 915MHz
<b>Impedance</b>	50Ω
<b>VSWR</b>	1.88 @ 915MHz
<b>Polarization</b>	Linear, Omni-Directional

### Antenna Measurement \_ Return Loss & VSWR



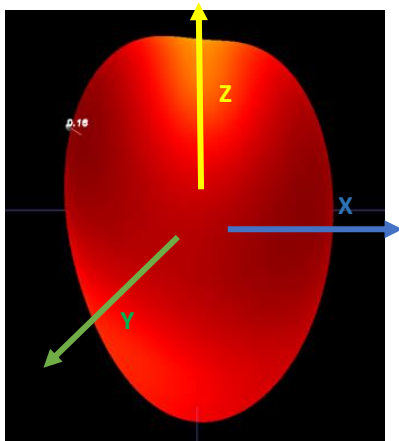
**Note:**

- a. The antenna is measured without a ground plane.
- b. Equipment: Agilent 5071

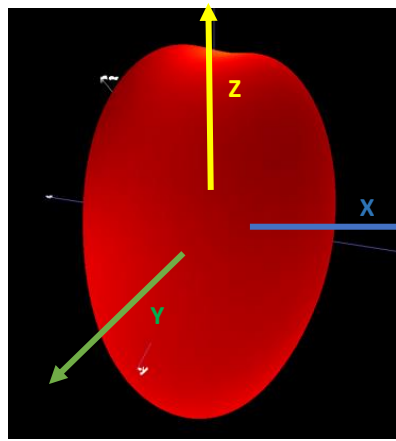


### Antenna Measurement \_ Gain & Efficiency

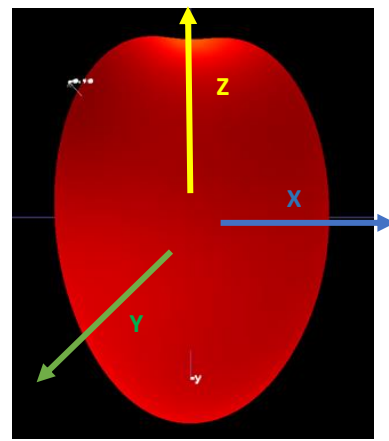
Frequency (MHz)	902	915	928	868
Efficiency (%)	56.29	59.40	55.55	49.82
Peak Gain (dBi)	0.11	0.20	0.29	-0.11



902MHz

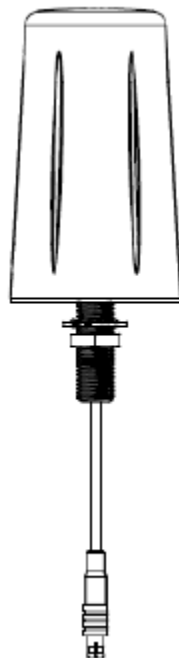
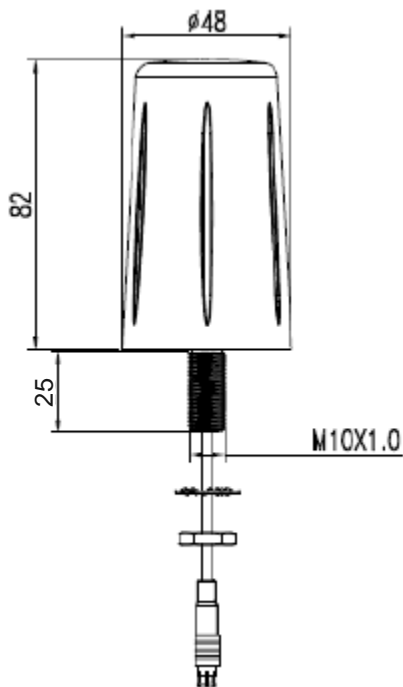


915MHz



928MHz

### Antenna Drawing



- Cable Options: RG-174 or CFD -100
- Connector: RF connectors
- Length of the threaded stud could be adjusted its length to fit the thickness of the surface
- Color of the housing can be customized

**\*\* Please contact us for the antenna drawing**