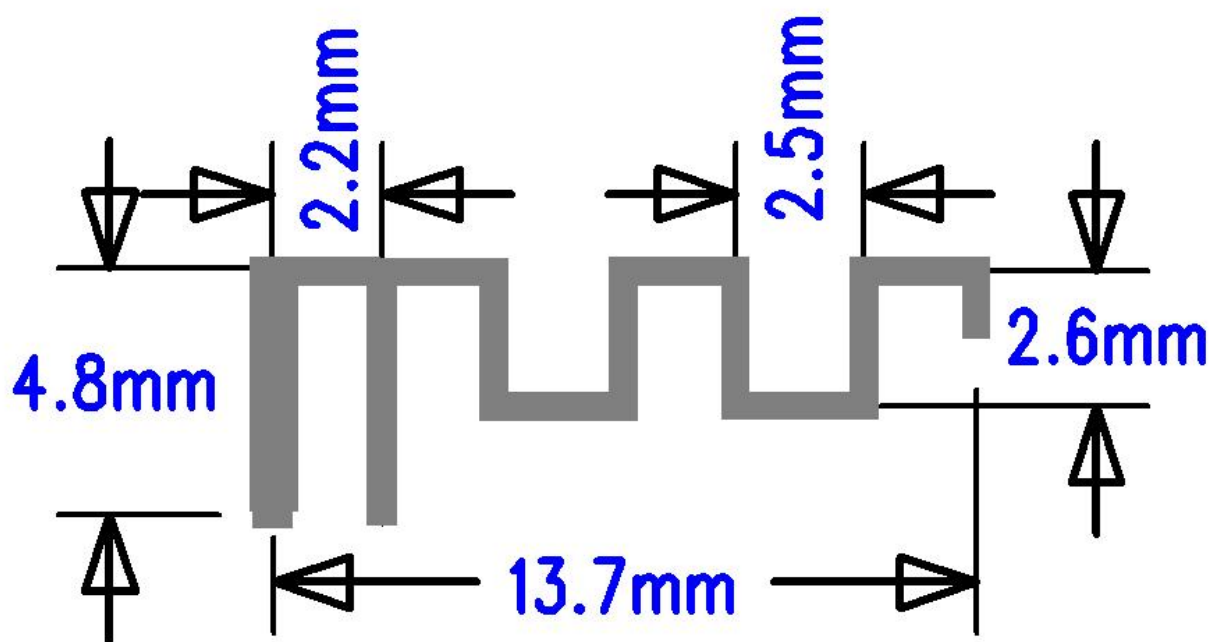


F-type Bluetooth antenna specification

1. Antenna introduction

The Bluetooth antenna is directly used on the PCB board.

2. antenna shape



3. Antenna parameters

The Bluetooth antenna operates at 2400-2500MHz, and resonates in this band. The following table shows the main parameters of the antenna.

| Bluetooth built-in antenna | |
|----------------------------|-----------------|
| Frequency (MHz) | 2400 ~ 2500 MHz |
| VSWR | ≤ 1.92 |
| Impedance | 50 Ohm Nominal |
| Return Loss | -10 dB Max |

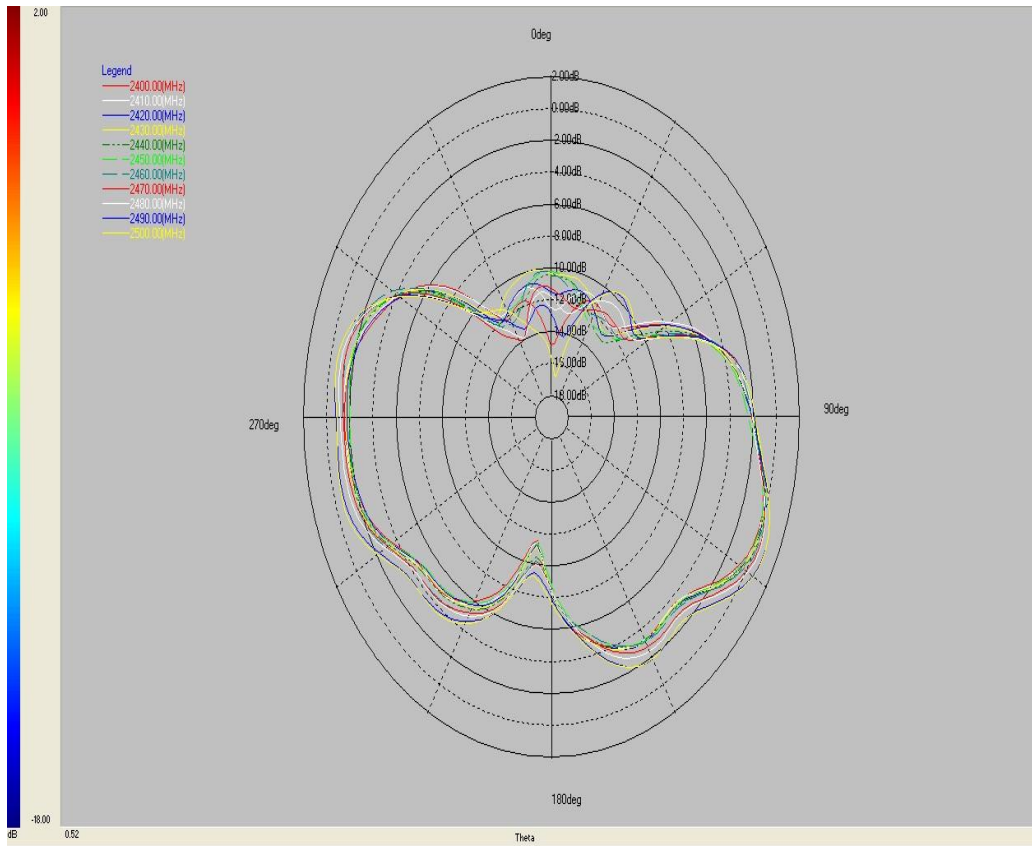
| | |
|----------------|------------------|
| Radiation | Omni-directional |
| Gain (Peak) | 1.08443dBI |
| Polarization | Linear, Vertical |
| Admitted Power | 2W |
| Connector | Tin |

4. Antenna gain detection report

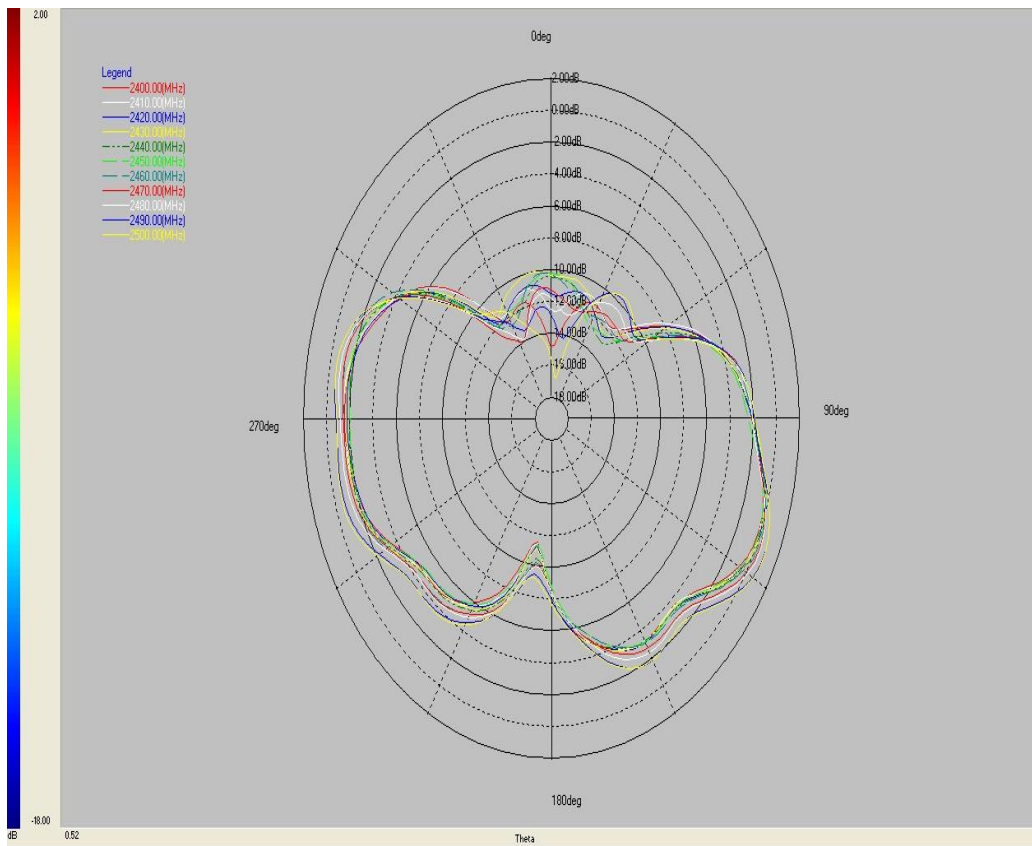
| | | | |
|--------------------|------|---------------|--------------|
| Spectrum Detector: | PK | Test Date : | June 8, 2013 |
| Test By: | Andy | Temperature : | 28°C |
| Test Result: | PASS | Humidity : | 55 % |
| Modulation: | GFSK | | |

| Frequency VNA (MHz) | E Total. dBI |
|---------------------|--------------|
| 2400MHz | 0.0403503 |
| 2410MHz | 0.0886264 |
| 2420MHz | 0.267381 |
| 2430MHz | 0.193012 |
| 2440MHz | 0.26366 |
| 2450MHz | 0.0723139 |
| 2460MHz | 0.36895 |
| 2470MHz | 0.551525 |
| 2480MHz | 0.640702 |
| 2490MHz | 1.05232 |
| 2500MHz | 1.08443 |
| | |
| | |

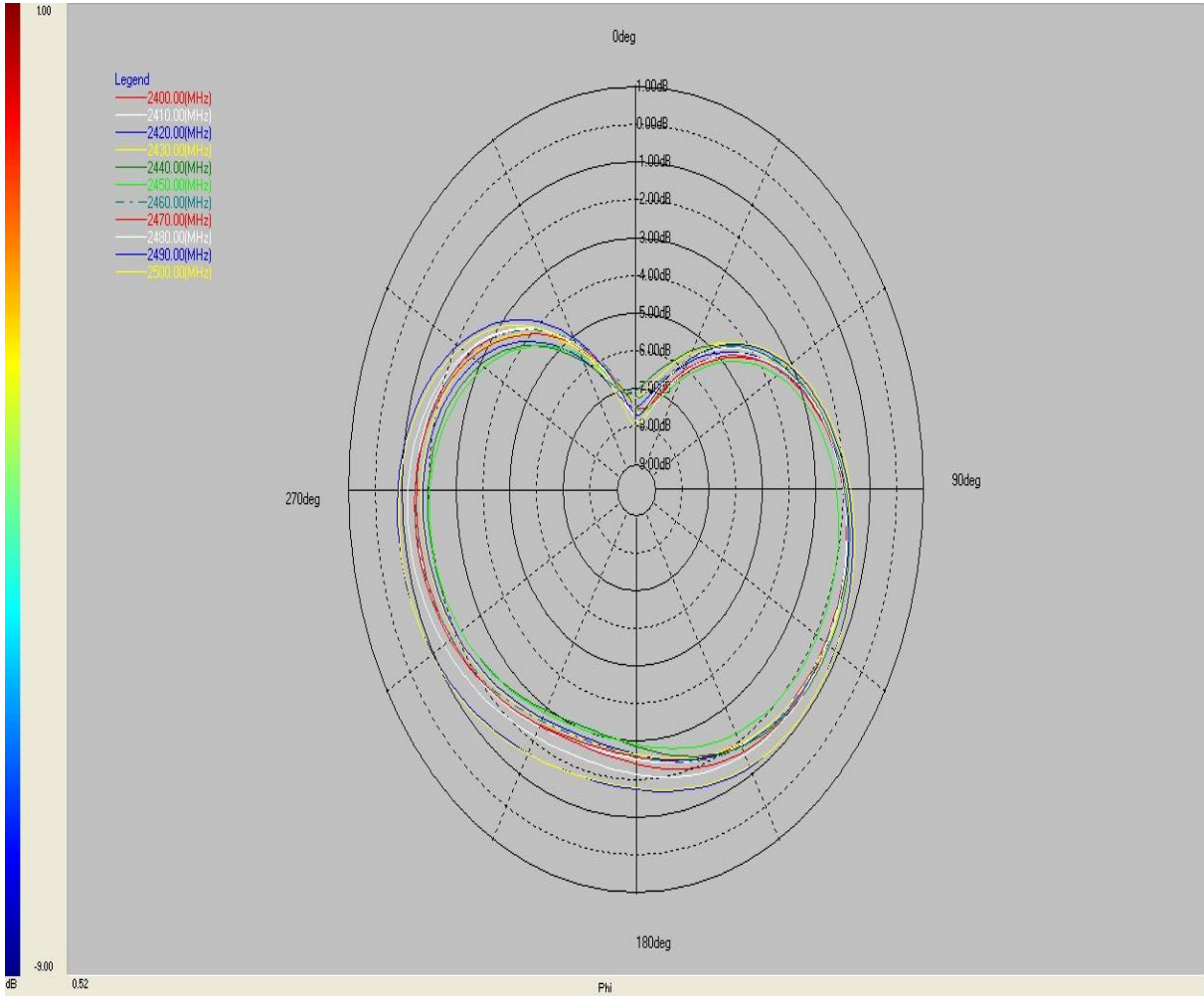
Direction map:



PHI 0 度



PHI 90 度



THETA 90 度

Standing wave ratio chart:



Product Description

The EUT is a short range, lower power, Splash designed as a Device. It is designed by way of utilizing the GFSK, 1/4PI-DQPSK and 8DPSK modulation achieves the system operating.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2400-2500MHz
- B). Modulation: GFSK, 1/4PI-DQPSK, 8DPSK
- C). Number of Channel: 79
- D). Channel space: 1MHz
- E). BIT Rate of Transmission: 1Mbps, 2Mbps, 3Mbps
- F). Antenna Type: PCB antenna
- G). Antenna **GAIN: 1.08443 dBI**