
HL-043 蓝牙天线规格书

HL-043 Bluetooth Antenna Specification Sheet

一、天线简介/Introduction to Antennas

蓝牙天线直接采用做在 **PCB** 板上的方式。/The Bluetooth antenna is directly made on the PCB board.

制造商：深圳市辉蓝科技有限公司/Shenzhen Huilan Technology Co., LTD

地址：深圳市宝安区航空路华丰第二工业园丰润楼 B 座 3 楼/3rd Floor, Block B, Fengrun Building, Huafeng Second Industrial Park, Hangkong Road, Bao 'an District, Shenzhen City

二、天线外形/Antenna shape



三、天线参数/Antenna parameters

蓝牙天线工作频率在 2402-2480MHz，在此频段产生谐振。下表为天线的主要参数。

The operating frequency of the Bluetooth antenna is between 2402 and 2480MHz, and resonance occurs in this frequency band. The following table shows the main parameters of the antenna.

Frequency(MHz)		2402 ~ 2480 MHz
VSWR		≤ 1.92
Impedance		50 Ohm Nominal
Return Loss		-10 dB Max
Radiation		Omni-directional
Gain (Peak)		3dBi
Polarization		Linear, Vertical
Admitted Power		2W
Connector		Tin

四、天线增益检测报告

Spectrum Detector:

PK

Test Date :

May 28, 2017

Test By:

Andy

Temperature :

28℃

Test Result:

PASS

Humidity :

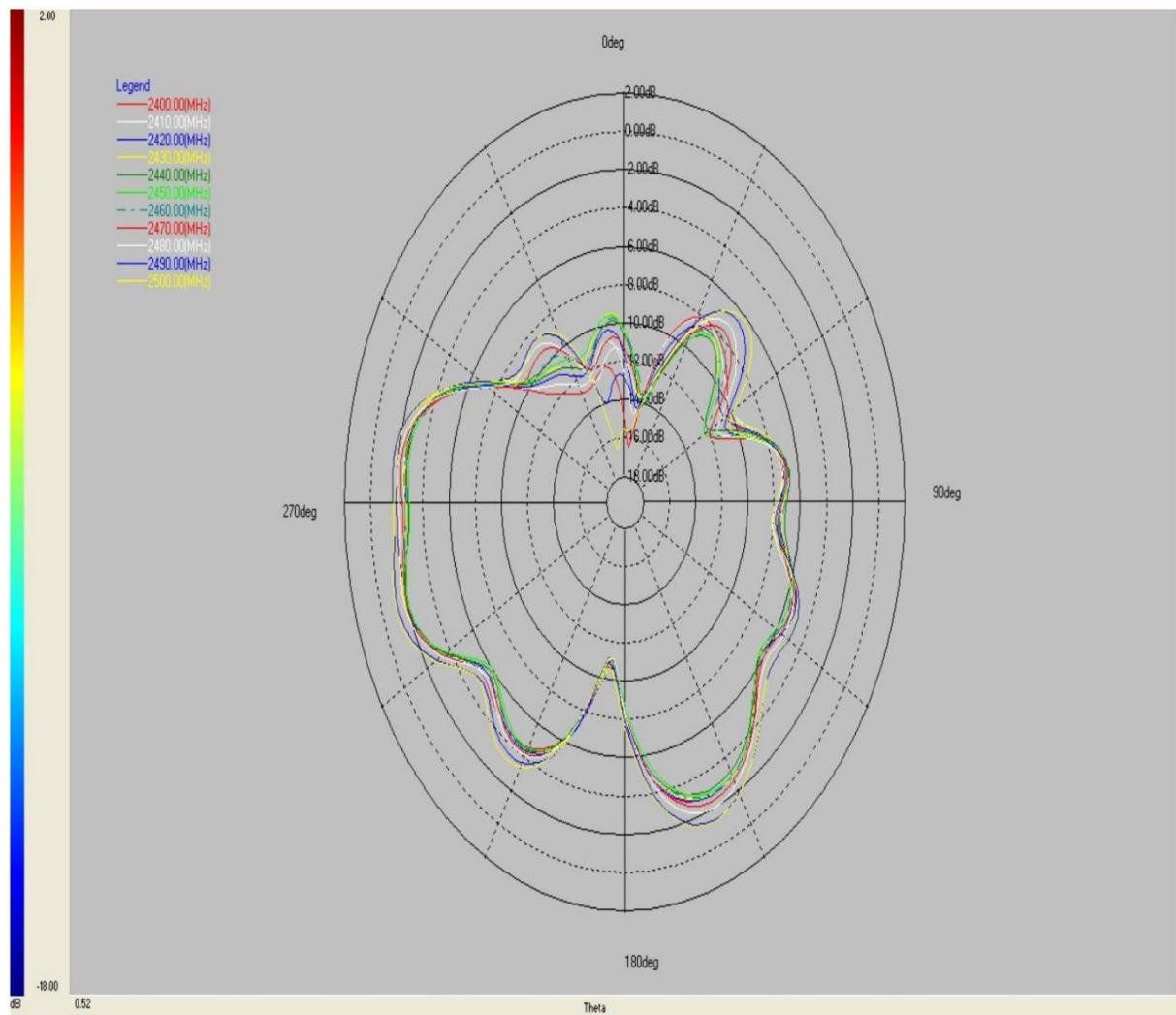
55 %

Modulation:

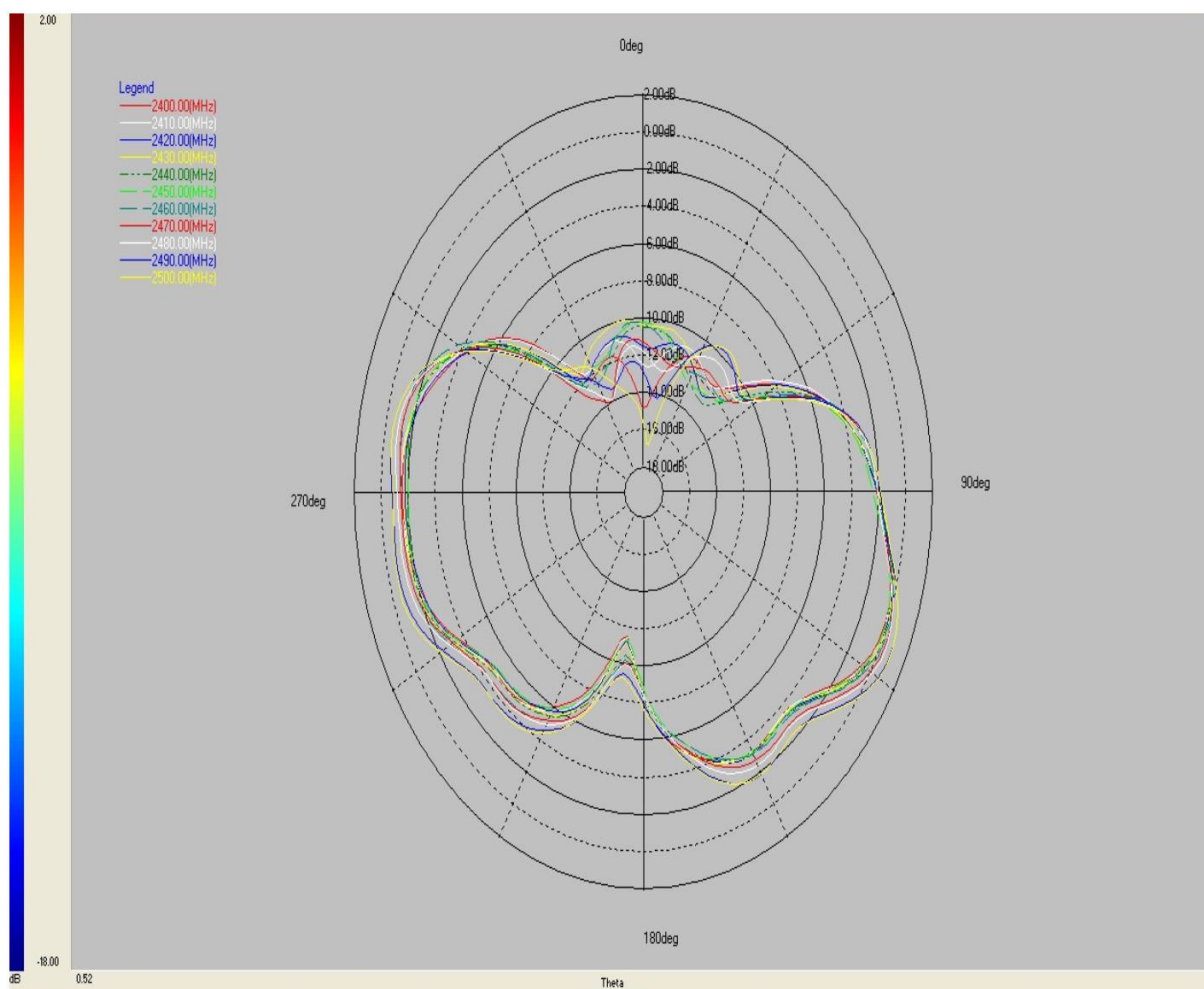
GFSK

Frequency VNA (MHz)	E Total. dB(dB)
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	3.00

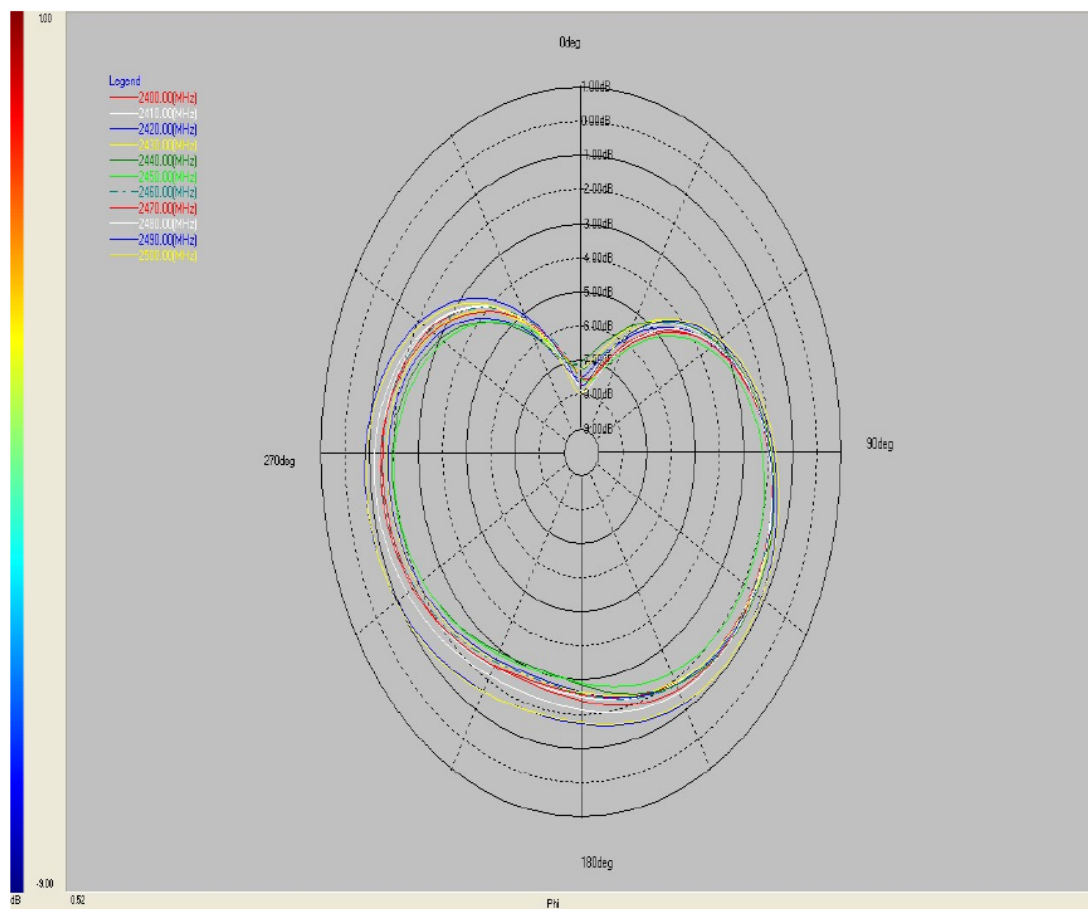
方向图:



PHI 0 度

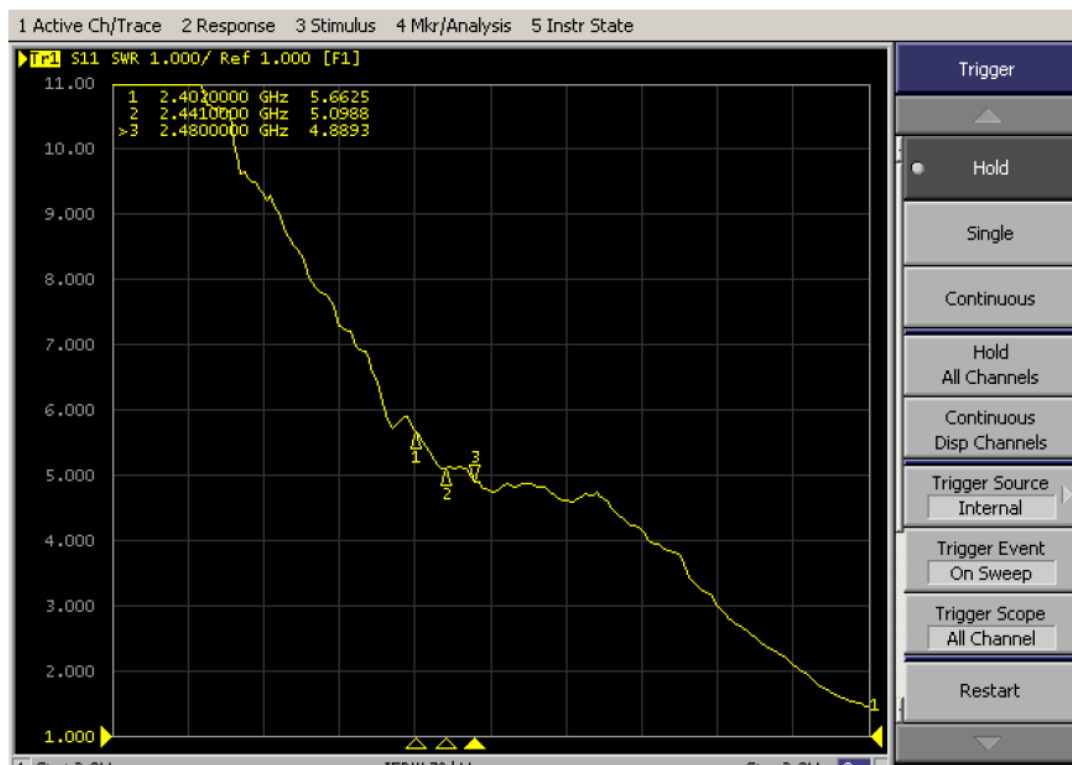


PHI 90 度



THETA 90 度

驻波比图:



Product Description

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

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402-2480MHz
- B). Modulation: GFSK, 1/4Π-DQPSK, 8DPSK
- C). Number of Channel: 79
- D). Channel space: 1MHz
- E). RF Output power: 0.44dbm
- F). BIT Rate of Transmission: 1Mbps, 2Mbps, 3Mbps
- G). Antenna Type: PCB antenna
- H). Antenna GAIN: 3dBi