

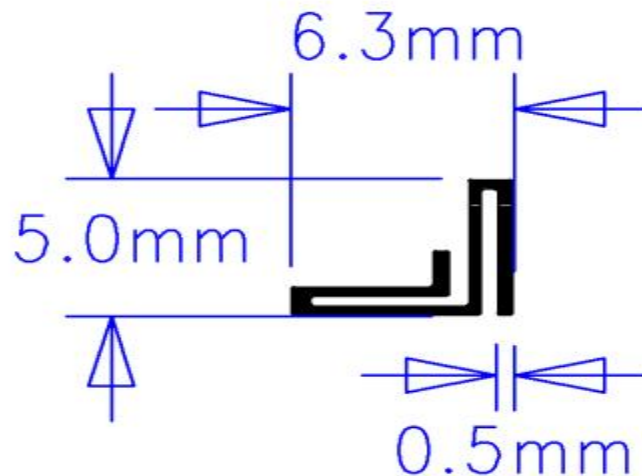
Product specification

Quick Reference Data

Bluetooth Standard	Bluetooth V5.4		
Host Interface	UART		
Antenna Reference	Small antennas with 0~2dBi peak gain		
Frequency Band	2400 MHz ~ 2483.5 MHz		
Number of Channels	79 channels		
Modulation	GFSK, $\pi/4$ -DQPSK, 8-DPSK		
RF Specification			
	Min(dBm)	Typical(dBm)	Max(dBm)
Output Power (Class 1)	2	6	10
Sensitivity@BER=0.1%for GFSK (1Mbps)		-92	
Sensitivity@BER=0.01%For $\pi/4$ -DQPSK(2Mbps)		-86	
Sensitivity@BER=0.01%for 8DPSK (3Mbps)		-85	
Maximum Input Level	GFSK (1Mbps):-20dBm		
	$\pi/4$ -DQPSK (2Mbps) :-20dBm		
	8DPSK (3Mbps) :-20dBm		

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board

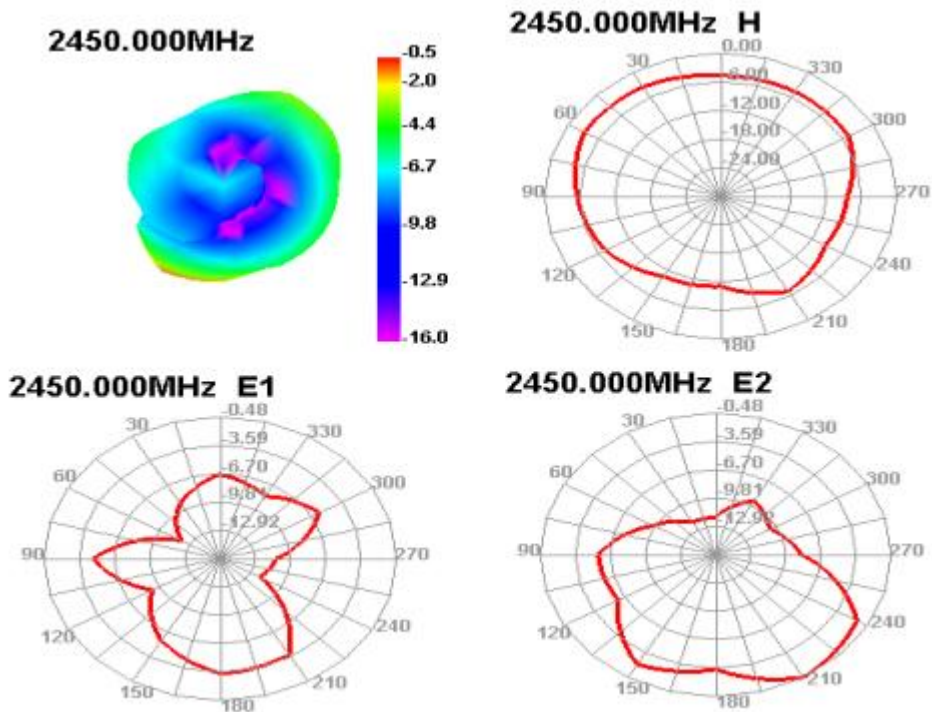


Antenna Gain

Gain Table

Passive Test For 2.4G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	27.01	-5.69	0.44
2410	28.9	-5.39	0.8
2420	28.97	-5.38	0.68
2430	28.36	-5.47	0.51
2440	27.27	-5.64	0.19
2450	24.87	-6.04	-0.48
2460	23.77	-6.24	-1.03
2470	22.39	-6.5	-1.55
2480	22.04	-6.57	-1.85
2490	22.28	-6.52	-1.93
2500	22.05	-6.57	-2.08

3D Gain Pattern @ 2450 MHz (unit: dBi)



The Environment of Antenna Radiation Pattern

测试条件 Test Conditions	常温环境下温度：21℃，湿度：50%RH Humidity: 50%, Temperature: 21℃,
测试设备 Test Equipment	SATIMO-OTA实验室；CMW500；MT8000；E5071C等 SATIMO-OTA Lab,
测试环境 Test Ambient	温度 (Temperature) : ____ 25 ____℃ 湿度 (Humidity) : ____ 40 ____RH

