

Antenna specification

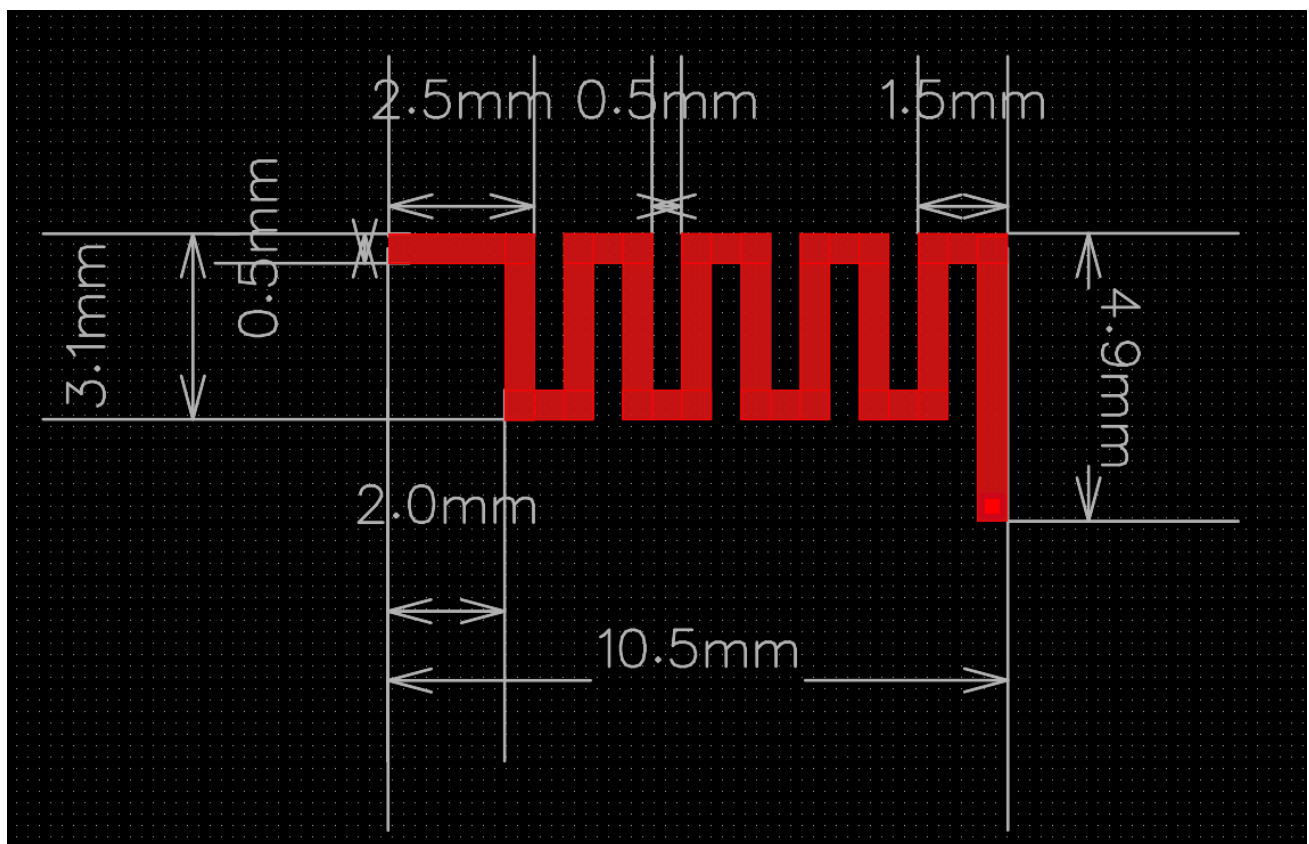
1、Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Shenzhen Yiwei Intelligent Technology Co., Ltd.

Address: Room A503, Building A, Huachuangda Cultural Industrial Park, District 49, Bao'an District, Shenzhen City, Guangdong Province, China.

2、Antenna shape



3、Antenna parameter

The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

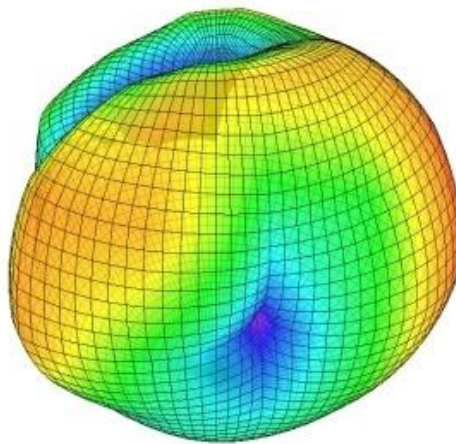
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Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.7
Impedance	50 Ohm Nominal
Return Loss	-12 dB Max
Gain (Peak)	-2.94 dBi

4、Antenna gain report

TRP(dBm)	-6.64	-6.52	-6.64	-6.99	-7.43	-6.85	-7.65	-7.68	-8.1	-8.07	-7.93
参数\频率 (mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak EIRP(dBm)	-2.94	-2.97	-3.34	-3.73	-4.08	-3.36	-4.01	-3.9	-4.24	-4.2	-4.1
Directivity	3.7	3.55	3.3	3.26	3.35	3.49	3.64	3.78	3.86	3.87	3.83
Gain(dBi)	-2.94	-2.97	-3.34	-3.73	-4.08	-3.36	-4.01	-3.9	-4.24	-4.2	-4.1
Efficiency(dB)	-6.64	-6.52	-6.64	-6.99	-7.43	-6.85	-7.65	-7.68	-8.1	-8.07	-7.93
Efficiency(%)	21.68	22.28	21.68	20	18.07	20.65	17.18	17.06	15.49	15.6	16.11
NHPRP π /4(dBm)	-7.42	-7.29	-7.42	-7.77	-8.22	-7.64	-8.45	-8.48	-8.9	-8.87	-8.72
NHPRP π /6(dBm)	-8.76	-8.63	-8.77	-9.12	-9.56	-8.99	-9.81	-9.83	-10.26	-10.22	-10.07
Min. EIRP(dBm)	-14.19	-13.95	-14.03	-14.21	-14.56	-13.91	-14.73	-14.84	-15.44	-15.59	-15.44
Upper Hem. PRP(dBm)	-9.15	-9.03	-9.15	-9.5	-9.95	-9.38	-10.16	-10.18	-10.59	-10.56	-10.43
Lower Hem. PRP(dBm)	-10.22	-10.09	-10.23	-10.57	-11	-10.41	-11.23	-11.26	-11.7	-11.68	-11.52
Ant. Port Input Pwr.(dBm)	0	0	0	0	0	0	0	0	0	0	0

$\theta: 60^\circ$
 $\varphi: 45^\circ$



频率(mhz):2400
型号:TV-MT003
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42

PASSIVE TRP =-
6.64281655539
345
dBmFrequency(
MHz)= 2400

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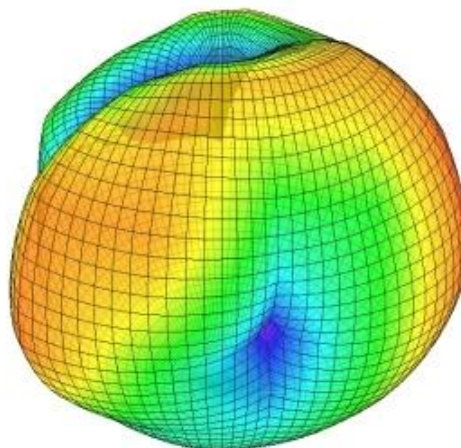
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$\theta: 60^\circ$
 $\varphi: 45^\circ$



频率(mhz):2410
型号:YV-MT003
测试面:3D
端口:A
日期:2024/10.20
时间:14:33:42

PASSIVE TRP =-6.5
1575838800583
dBmFrequency(
MHz)= 2410

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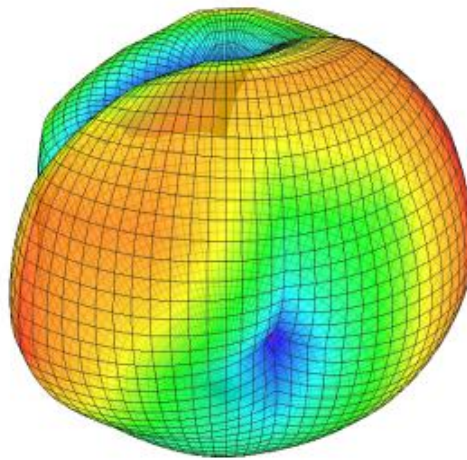
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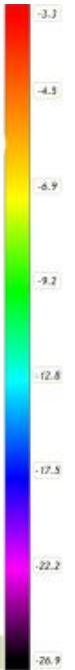
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$\theta: 60^\circ$
 $\phi: 45^\circ$



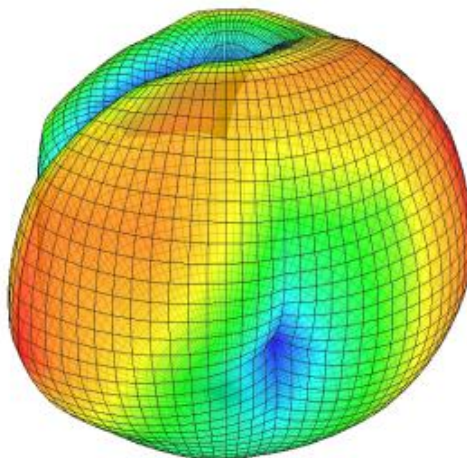
频率(mhz):2420
型号:YV-MT003
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42

PASSIVE TRP =-6.
64377376778776
dBmFrequency(
MHz)= 2420



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$\theta: 60^\circ$
 $\phi: 45^\circ$



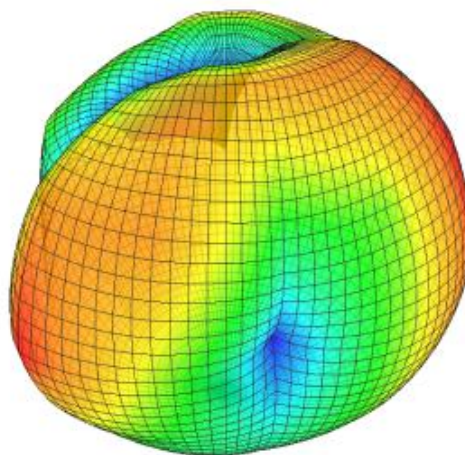
频率(mhz):2430
型号:YV-MT003
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42

PASSIVE TRP =-
6.99245660602
229
dBmFrequency(
MHz)=2430

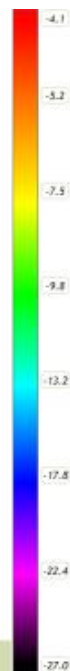


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$\theta: 60^\circ$
 $\phi: 45^\circ$

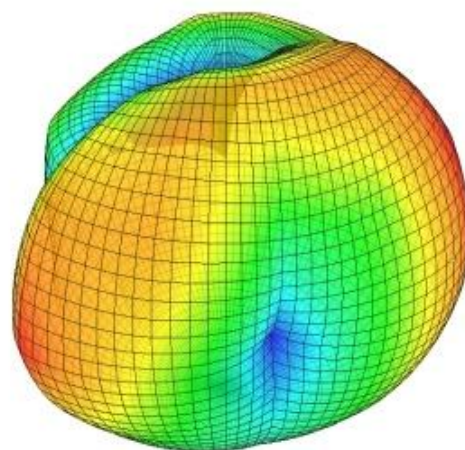


频率(mhz):2440
型号:YV-,T003
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42
PASSIVE TRP =-
7.42996117644
261
dBmFrequency
(MHz)= 2440

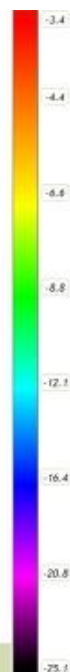


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$\theta: 60^\circ$
 $\phi: 45^\circ$

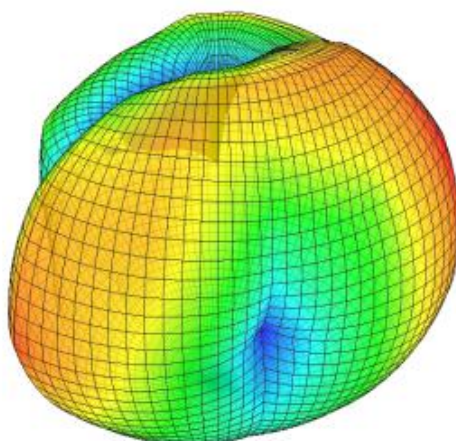


频率(mhz):2450
型号:YV-MT003
测试面:3D
端口:A
日期:2024.20.21
时间:14:33:42
PASSIVE TRP =-6.
85280333294934
dBmFrequency(
MHz)= 2450



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$\theta: 60^\circ$
 $\phi: 45^\circ$



频率(mhz):2460
型号:YV-MT003
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42

PASSIVE TRP =
-7.650258180123
51 dBmFrequency
(MHz)= 2460

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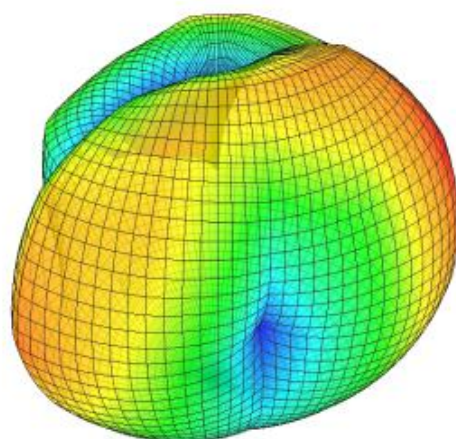
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$\theta: 60^\circ$
 $\phi: 45^\circ$



频率(mhz):2470
型号:2024.10.20
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42

PASSIVE TRP =-7.
67581937767671
dBmFrequency(
MHz)=2470

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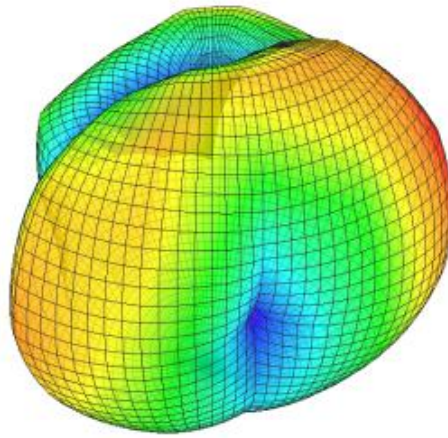
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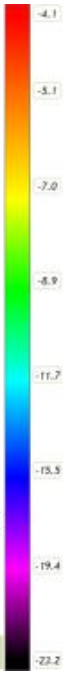
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$\theta: 60^\circ$
 $\phi: 45^\circ$



频率(mhz):2500
型号:TV-MT003
测试面:3D
端口:A
日期:2024.10.20
时间:14:33:42
PASSIVE TRP =-7.93
057864451588
dBmFrequency(
MHz)= 2500



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