

深圳市华创翔科技有限公司

SHEN ZHEN WACOSUN TECHNOLOGY CO, LTD

产品规格书

PRODUCT SPECIFICATION SHEET

Customer: _____

Product Name: 2.4GHz Bluetooth onboard Antenna

Product code: HCX-TX-Module

Customer code: _____

Sample date: 2024-7-20

HCX Confirm:

Approval	Quality	Engineer	Signature
David	Henry	LISA	



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SPECIFICATION ITEM

Item	Description
1.....	SPEC
2.....	SPEC ITEM
3.....	Engineer drawing
4.....	Performance

RF Antenna Cable Assembly

Specification

1. Electrical Properties

- 1.1 Frequency Range.....2.4GHz-2.5GHz
- 1.2 Impedance.....50 Ω Nominal
- 1.3 VSWR.....3.28 MAX
- 1.4 Return Loss.....-10dB Max
- 1.5 Gain(peak)0.42dBi
- 1.6 Cable loss.....0.02dBi Max
- 1.7 Polarization.....Linear Vertical
- 1.8 Conn.....N/A

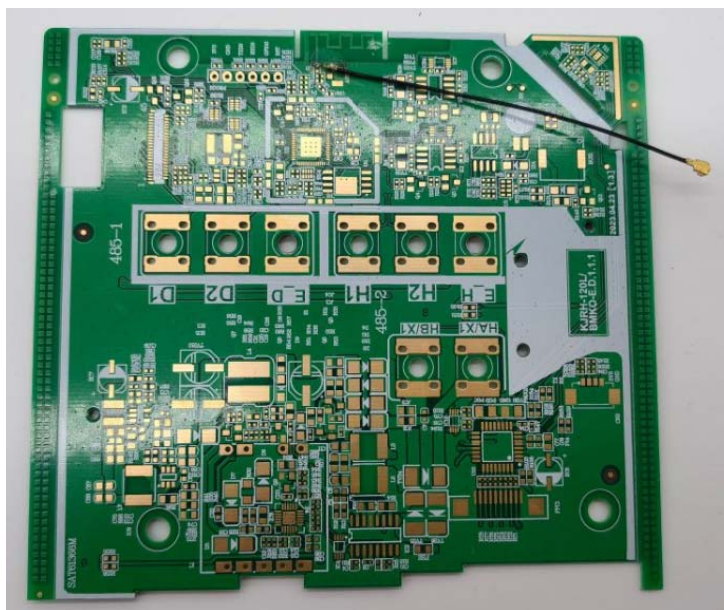
2. Physical Properties:

- 2.1 Antenna Material.....Cu
- 2.2 Operating Temp.....-20°C- +65°C
- 2.3 Storage Temp.....-30°C- +75°C

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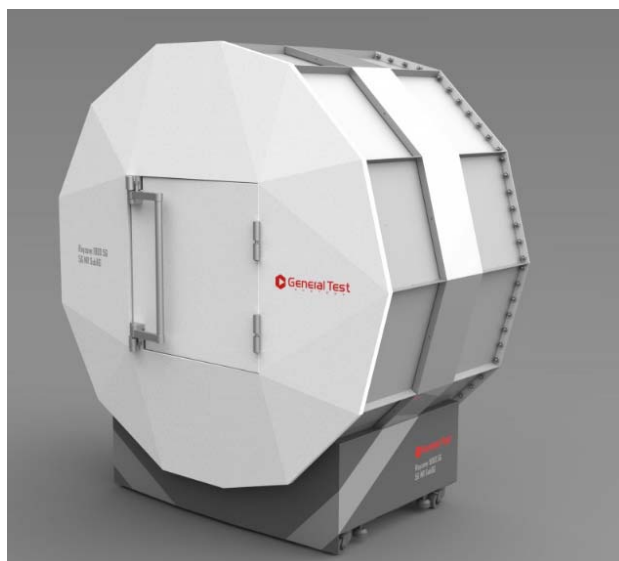
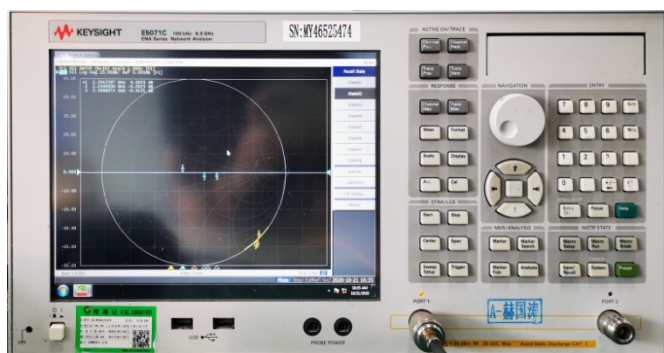
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Module onboard Antenna Test equipment
SPEC:2.4GHz Bluetooth Antenna

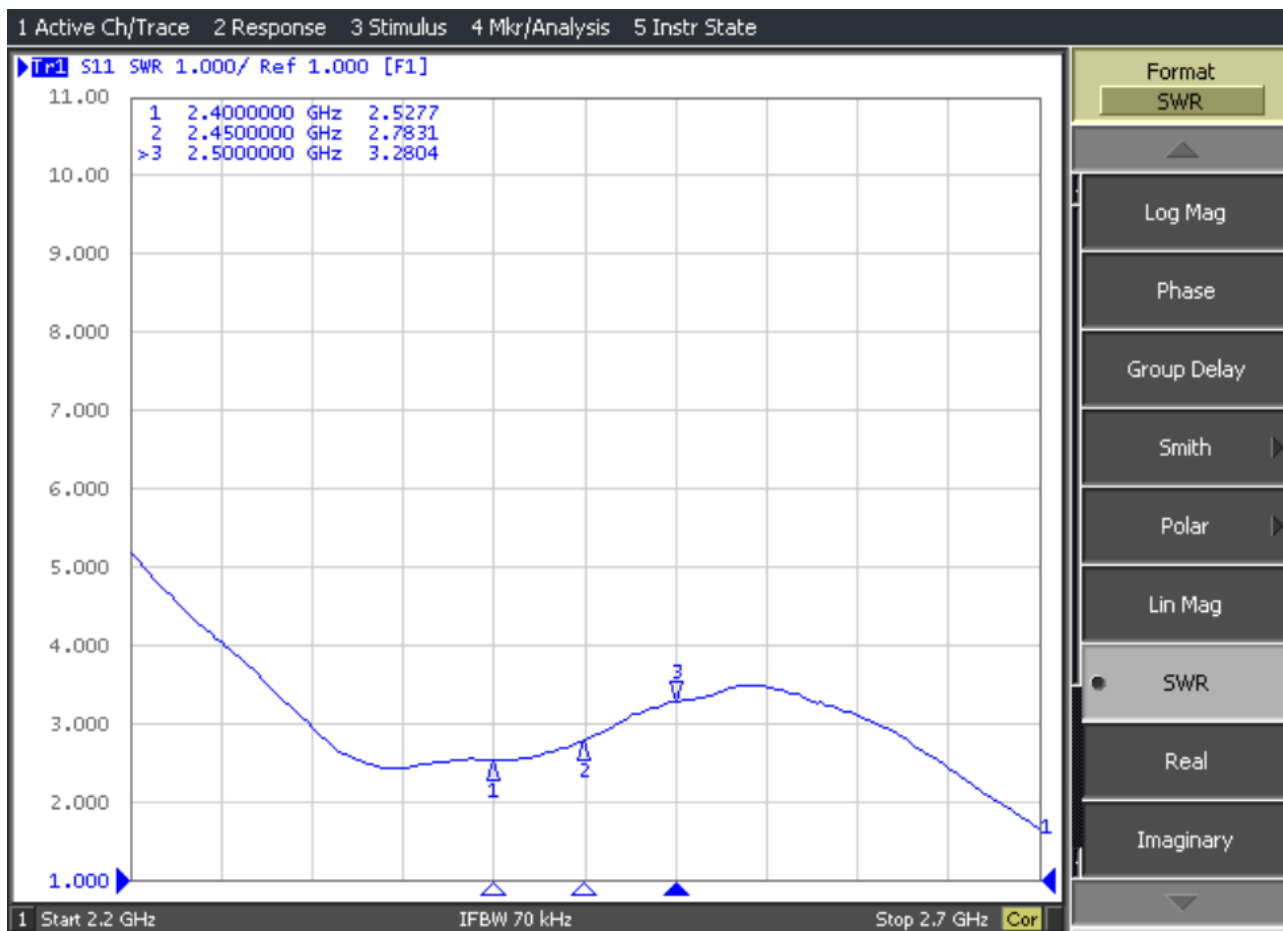


板载匹配电路: N/A

Module PCB Antenna



1.0 驻波比V.S.W.R



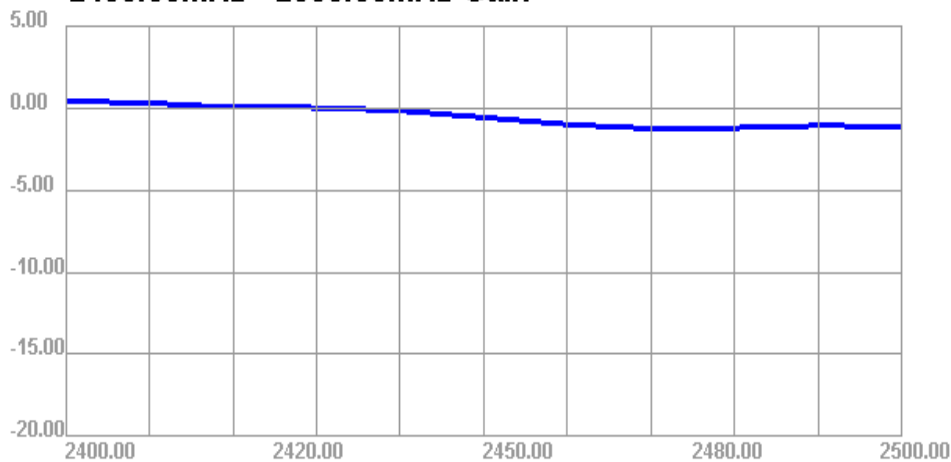
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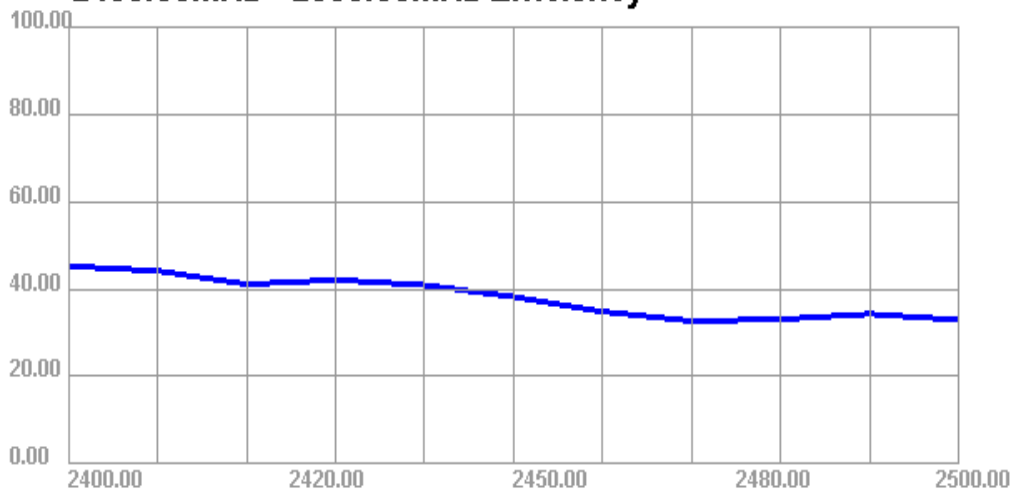
2.4Ghz Performance data:

Passive Test For WIFI-2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)
2400	45.25	-3.44	0.42	-1.73	24.794	20.454	0.42	-14.9	3.86	0
2410	44.17	-3.55	0.3	-1.85	24.165	20.002	0.3	-14.99	3.85	0
2420	41.12	-3.86	0.04	-2.11	22.192	18.928	0.04	-14.92	3.9	0
2430	42.11	-3.76	0.03	-2.12	22.052	20.055	0.03	-14.75	3.78	0
2440	40.93	-3.88	-0.16	-2.31	20.684	20.243	-0.16	-14.58	3.72	0
2450	38.22	-4.18	-0.58	-2.73	18.837	19.386	-0.58	-14.98	3.6	0
2460	34.85	-4.58	-1	-3.15	17.091	17.763	-1	-15.71	3.58	0
2470	32.7	-4.85	-1.25	-3.4	16.163	16.539	-1.25	-16.21	3.6	0
2480	33.11	-4.8	-1.21	-3.36	16.577	16.532	-1.21	-16.41	3.59	0
2490	34.32	-4.65	-1.07	-3.22	17.282	17.034	-1.07	-16.5	3.57	30
2500	32.95	-4.82	-1.12	-3.27	16.559	16.394	-1.12	-16.74	3.7	0

2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency



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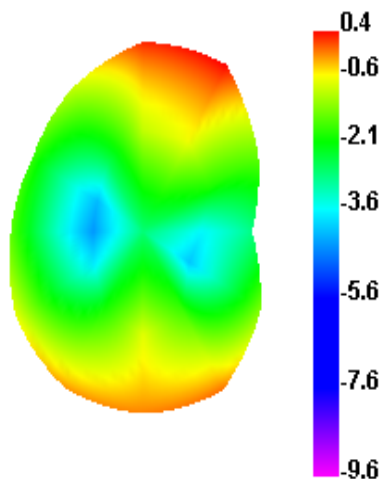
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Frequency:2.40GHz

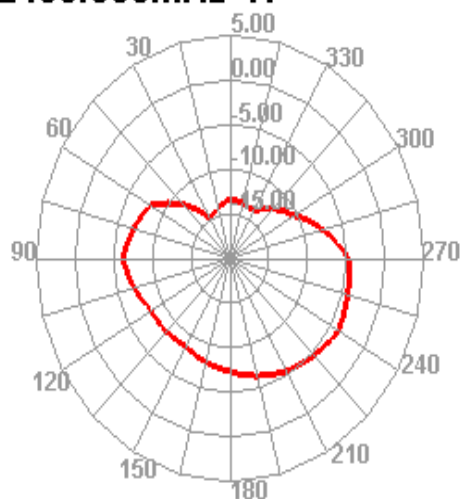
Peak Gain:0.4dBi

Efficiency:45.25%

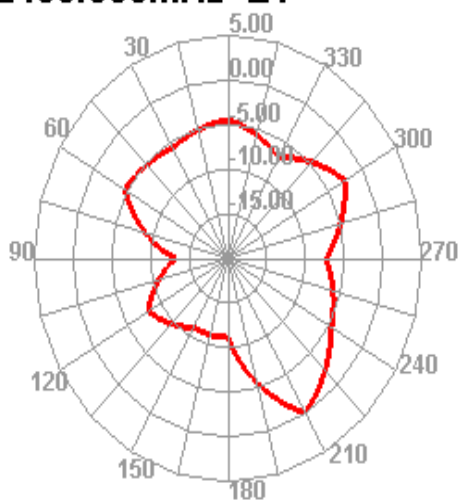
2400.000MHz



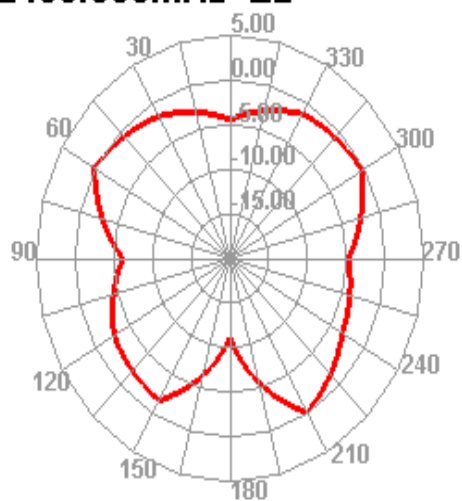
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



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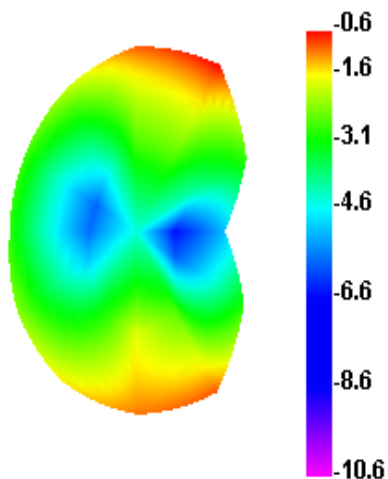
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Frequency:2.45GHz

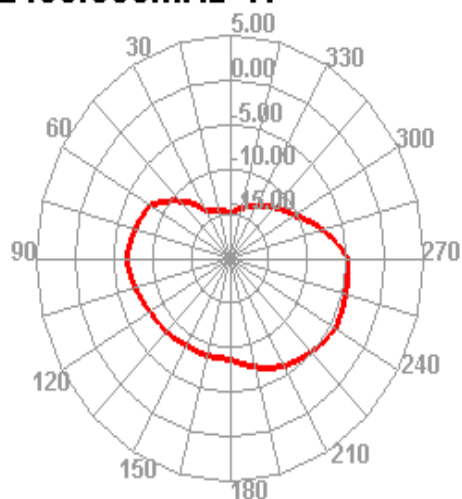
Peak Gain:-0.60dBi

Efficiency:38.22%

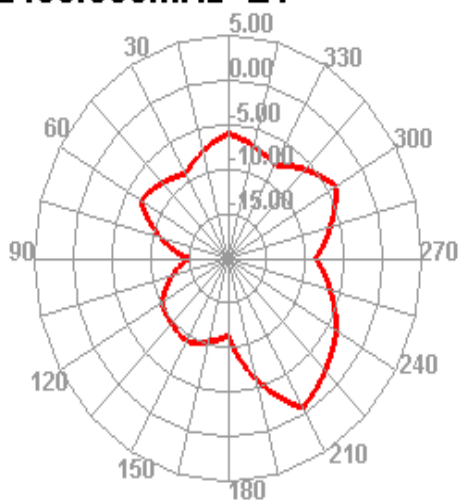
2450.000MHz



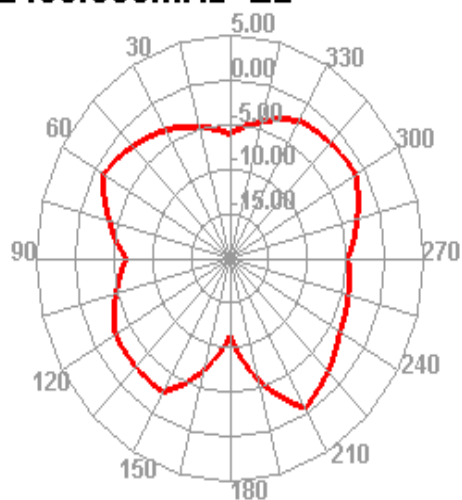
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



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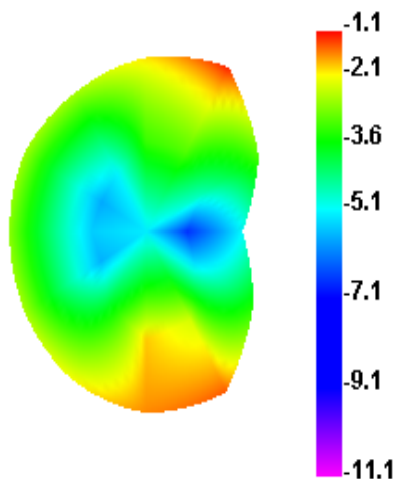
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Frequency:2.50GHz

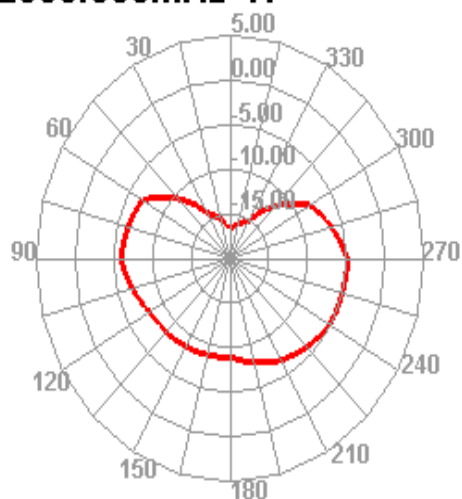
Peak Gain:-1.12dBi

Efficiency:32.95%

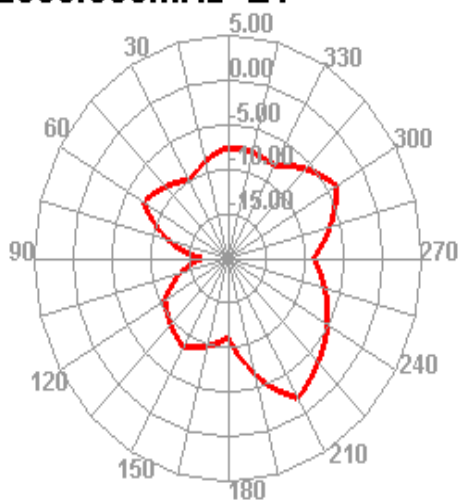
2500.000MHz



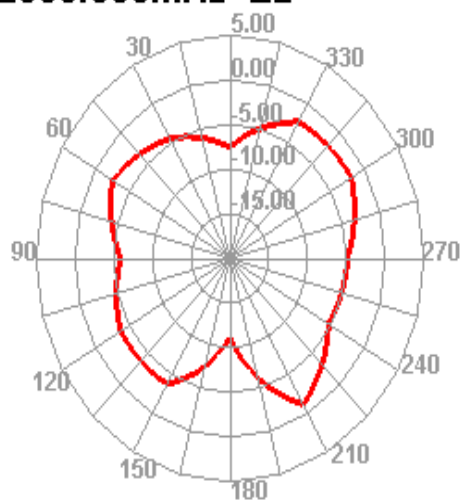
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



~~报告结束~~

~~The end~~