



Shenzhen Kenhaitong Antenna Technology Co.,Ltd.

Guangdong
Jianbotong
Securities code: 831958

Antenna specification

Vendor Name	Shenzhen kenhaitong antenna technology co,ltd				
Customer Name	Hubsan				
Sample Name	KIT-H817-BT-V06				
Part Number	H817				
Specification	Black FPC 27*6.5、Copper pipe、Black RF0.81CABLE IPEX3 L=173mm				
Inspection Item	Performance	Total Appearance	structure	Audit	Inspection Result
Remark					
QA Audit		Engineer Audit		Sales Confirm	
The following are filled by Customer					
Customer Evaluation					
Customer signed/stamped Signation/Chapter by Customer	date:				

Address:3rd floor, west of No.1 Building, Hezhou Zhonguo Industrial Park,
Hangcheng Street, Bao'an District, Shenzhen
TEL: 0755-85274764 FAX: 0755-85274764



Antenna Test Report

Test by: Shenzhen kenhaitong antenna technology co,ltd			
Material	FPC+Copper pipe+CABLE+IPEX		
Antenna Type	MonopoleType	Polarization mode	Linear
Application			
Band	2.4G/BT	VSWR	≤1.6
Power	Max: 2W	Impedance	50Ω
dBi	1.54dBi		
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
Antenna Description:: 1. Grounding processing and picture description: no 2. Need to change the motherboard to match: no ● Test voltage: 3.6V, check the antenna contact is good before testing. ● The RF cable of the integrated tester is kept in a natural state and can not be curled. Specification:test the specified power level, all indicators must conform to the specifications.			



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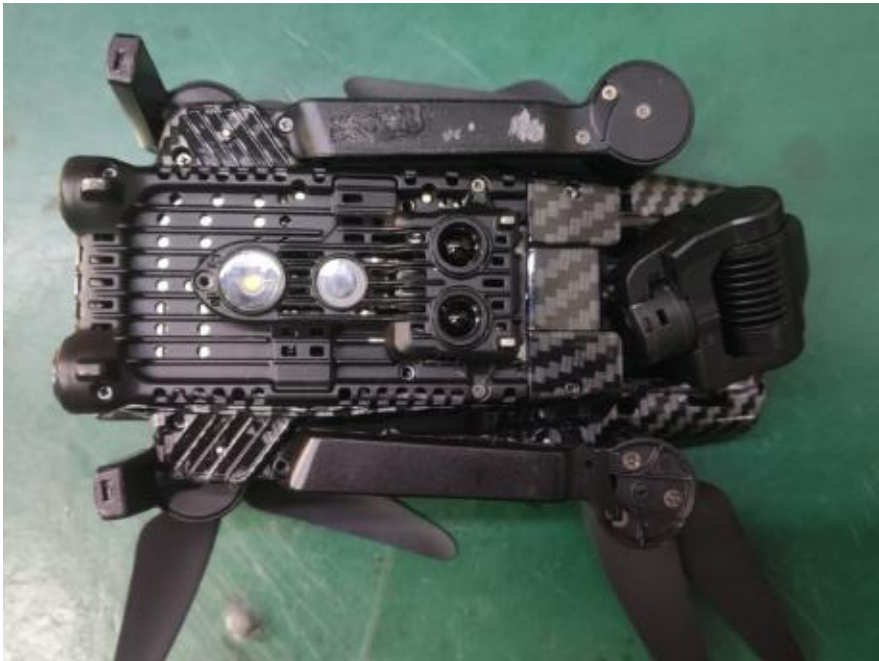
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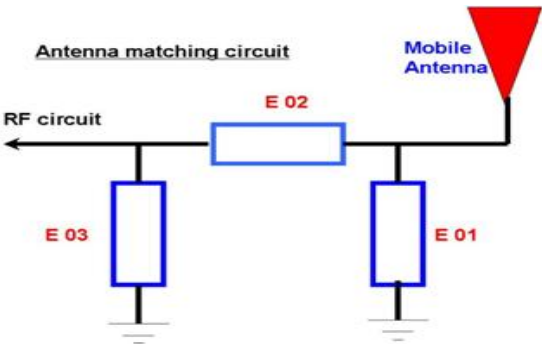


1、Project Picture



Note: The customer finally verified that the antenna performance prototype is retained in our company for at least one year to analyze and solve the abnormal situation in the antenna mass production and ensure the antenna shipment quality.

2、Antenna Matching Circuit



Modify

E01	E02	E03
No	No	No

Remarks: Match No Modification



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3、 Darkroom Test Equipment And Methods



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3.1 S11 Parameter

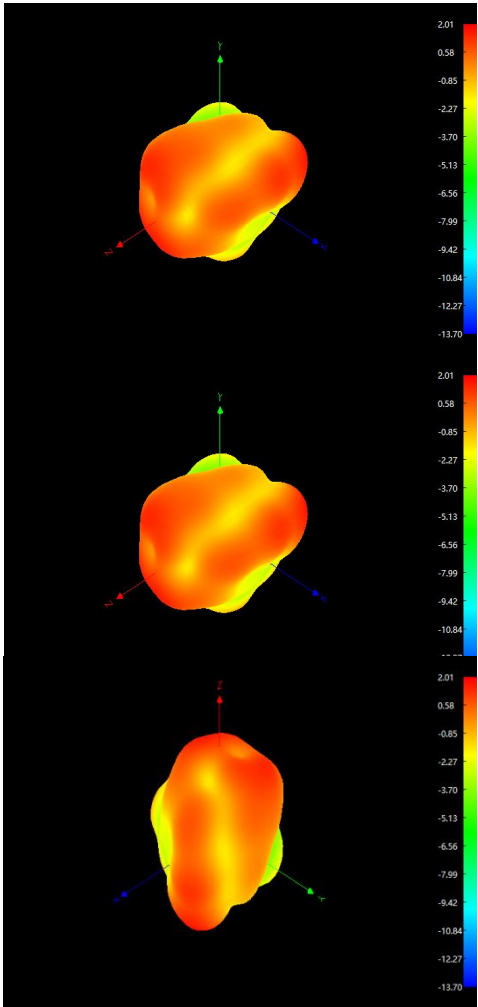
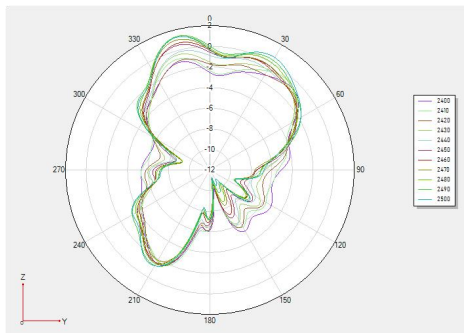
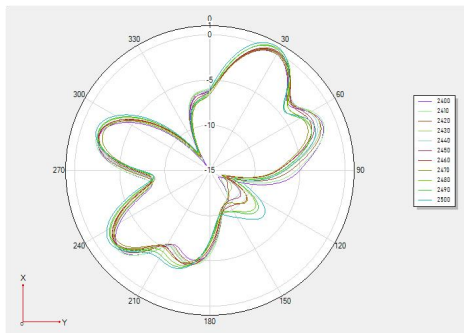


Frequency (MHz)	2400		2500			
VSWR	1.4		1.6			



4、Passive Test Data

Frequency / MHz	Efficiency / %	Gain/ dBi
2400	50.47	1.29
2410	49.09	1.3
2420	50	1.26
2430	48.08	1.48
2440	50.35	1.35
2450	50	1.5
2460	49.2	1.26
2470	47.53	1.39
2480	50	1.54
2490	50.93	1.76
2500	51.17	2.01





Theta 90

Frequency	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBackRatio	PatternRipple
2400	-0.16	29	-14.32	325	33	5.41	14.16
2410	0.01	29	-13.76	325	34	5.43	13.77
2420	-0.17	29	-13.23	325	35	5.55	13.06
2430	-0.06	29	-13.41	113	35	5.46	13.35
2440	0.08	29	-12.88	111	35	5.6	12.96
2450	0.02	29	-13.61	110	35	5.24	13.63
2460	0.14	29	-13.03	110	34	5.38	13.17
2470	-0.05	29	-13.54	110	33	4.98	13.49
2480	0.44	28	-12.74	328	32	4.94	13.18
2490	0.33	28	-12.76	327	31	4.38	13.09
2500	0.6	27	-12.53	327	32	4.25	13.13

Phi 90

Frequency	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBackRatio	PatternRipple
2400	-0.73	44	-10.1	169	114	2.28	9.37
2410	-0.47	39	-10.91	168	106	2.18	10.44
2420	-0.97	43	-10.83	169	121	1.99	9.86
2430	-0.41	-16	-11.17	169	107	8.55	10.76
2440	-0.16	-14	-10.84	170	108	9.49	10.68
2450	0.49	-15	-10.98	170	100	9.85	11.47
2460	0.68	-14	-11.01	170	97	10.63	11.69
2470	1.01	-15	-11.11	169	93	10.97	12.12
2480	1.27	-14	-11.09	169	91	11.89	12.36
2490	1.35	-14	-11.04	168	93	12.27	12.39
2500	1.27	-14	-11.27	166	93	12.54	12.54

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6、Sample size inspection report

Sample Size Inspection Report

Model: KIT-H817-BT-V06

Date: 2023-8-25

Test Items		Standard	Sample inspection status (value)					Determine	Remarks
			1	2	3	4	5		
Antenna structure size	A1	27±0.2mm	27.01	27.02	27	27.04	27.01	pass	
	A2	6.5±0.2mm	6.53	6.50	6.50	6.52	6.51	pass	
	A3	27.5±0.2mm	27.52	27.52	27.50	27.54	27.50	pass	
	A4	173±2.0mm	173.22	173.30	173.19	173.27	173.17	pass	
	A5								
	A1								
	A2								
	A3								
	A4								
	A5								
	A6								

Approved: CZY

Audit: CXM

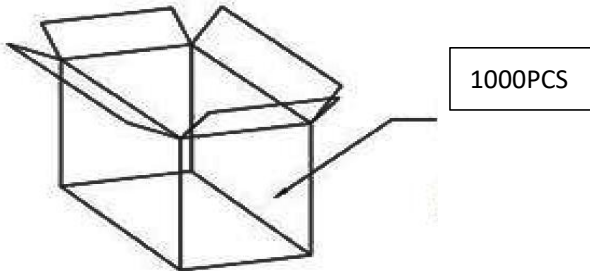
Test: JXB



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7、Packaging Method

Packaging					
Customer Name:Habson		Name:KIT-H817-BT-V06		Code:	TEST: A
Packaging details	Code	name	size	quantities	
	PE	PE bag	230*330*0.12	1/100	
	SYC-BZ-01	Paper box	270*250*130	1/10000	
job step	1. Prepare the required packaging materials and place them in favorable operation positions. 2. Carcarton / PE bags, packaging, 100PCS / bag, 100 bags, 10,000 P C S per box. 3. Put 100 bags in each box, totaling 10,000 P C S. After filling the box, seal the box with transparent tape. Graphic picture of packaging products				
Illustration					
remark					
compile		approval		MADE	DATE
JSB		DS		LSY	2023/08/25

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