Shenzhen Hetuo Technology Co., Ltd

Building 1202B, Building C 6, Hengfeng industrial city, Hezhou, xixiang, Baoan District, Shenzhen City

Sample Approved Sheet

Hetuo (R1360-L+Touch) Acknowledgment Antenna Type:FPC

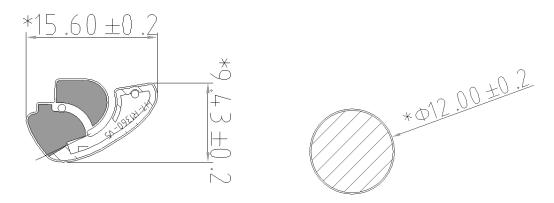
Customer Name Dongguan Shui Wo Electronic Technology Co., Ltd.					
Client Typ	e	R1360			
Brand	<u> </u>	HT-R1360-L+Touch			
Hetuo Judgment	Audit Team				
Formulate	Check	Ratify	Acknowledge the book completion time		
ZhongXiaoMing	HuangZhiLing	Daitingting	2025.5.13		
(Ruihe) Judgment Audit Team					
Acknowledgeme	Acknowledgement Number Proving time				
acknowledge	check	ratify	Acknowledge the book completion time		
Project Review □Three acknowledgements□Specifications/drawings □examining report □Specimen PCS □Safety standard □HSF					
Appraisal report □ Accept □ Conditional acceptance □ Refuse					

Confidential Information

Date	Versi on	The revised notes	Notes
2025. 5. 13	AO	For the first time	
		on	on The revised notes

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-R1360 -L+Touch. The HT-R1360 -L+Touchantenna is a **BT** Band . The antenna Picture and assembly are shown below.



Antenna picture & assembly picture

2. Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

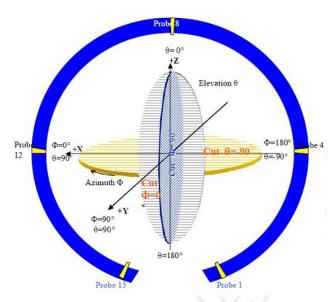
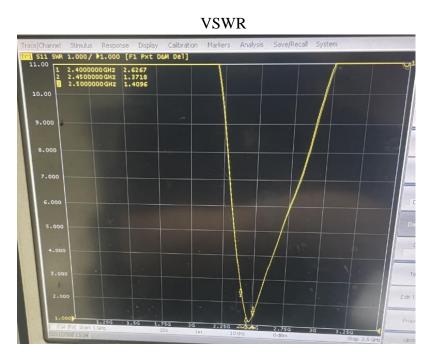


图 4 3D 微波暗室测试坐标系(back view)

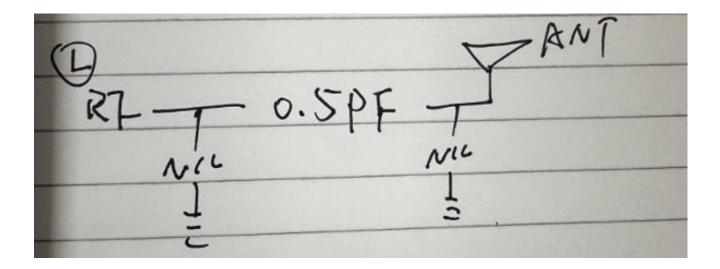
3. Electrical Specification

3-2 Passive S11 parameter

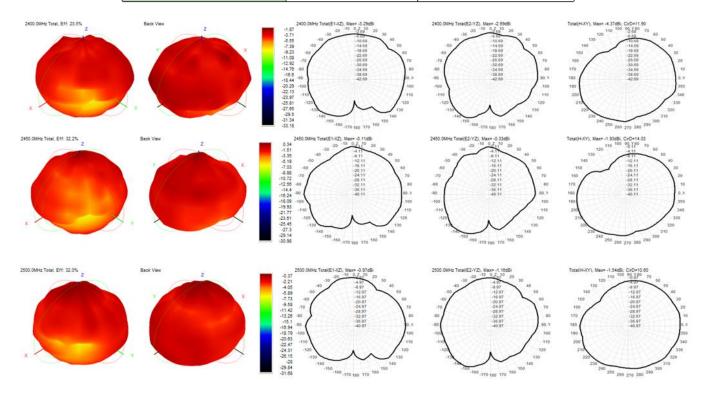
Measuring Method $\,$ is a $50\,\Omega$ coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



3-3 Antenna Matching Network



Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	23.55	-1.87
2410	24.46	-2.36
2420	24.91	-2.03
2430	25.47	-0.52
2440	25.81	-0.08
2450	26.23	0.34
2460	26.94	0.20
2470	27.63	-0.07
2480	28.81	0.02
2490	29.50	0.08
2500	28.00	-0.37



BT-LANT-FS

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protoc ol	Channel	TRP(dBm)	TIS(dBm)
	CLASS 1	0	3.13	-88.77
BT		39	3.51	-87.79
		78	3.84	-87.42

BT-LANT-BH

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protoc ol	Channel	TRP(dBm)	TIS(dBm)
		0	0.11	-84.56
BT	CLASS 1	39	1.04	-83.51
		78	0.95	-83.65

4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

4. The total thickness of FPC is 0.11-1.15mm (excluding adhesive release paper), and the contact point

5. Please use PI 1 to 1 substrate, electrolytic copper; Surface black ink line printed in white 6. The ink does not contain carbon or metal particles, and the surface is UV resistant and UV resistant;

needs to be processed with a 3-mil gold deposition process

The appearance of the antenna is according to drawing Figure 8

#9. 43 ± 0. 2

Technical requirements:

1. It must comply with EU Rolls and REACH, as detailed in the appendix;

2. Single machine usage: 2PCS

3. FPC compreh wiring section on side A, while side B represents the use of 3M 9471 adhesive backing

Shenzhen Hetuo Technology Co., Ltd | December 1997 | Dec

Confidential Information

