Antenna specification

Part Description	Vendor：点滴　　Description： Product Name：pcb antenna-B　　Project：E1000WT Part NO：　　Version：A1
Attachments	■ Spec　☑ Drawing　☐ Sample　☑ ROHS Repot ☐ Cpk Report　☐ FAI Report　■ Reliability Report　☐ Safety Report ☐ QC Flow Chart　☐ Molding conditions　■ Material Verification Sheet ■ Packing Content　3C Certificate　☐ *Material inspection standard*
Vendor	Design:胥万芳　　Check:郑翠兰　　Approval:彭发辉
Technology check	Mechanical：　　Hardware： ID：　　Market： DQE/SQE：
Final check	ROHS: Quality plannin
Approval condition	☐ Approved　☐ Reject ☐ Condition approved Temporary approved
Approval by	RD Leader(Technology Director)　　Quality Director
Distribute	

Content

2 instructions

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna.Below is a picture of the antenna。

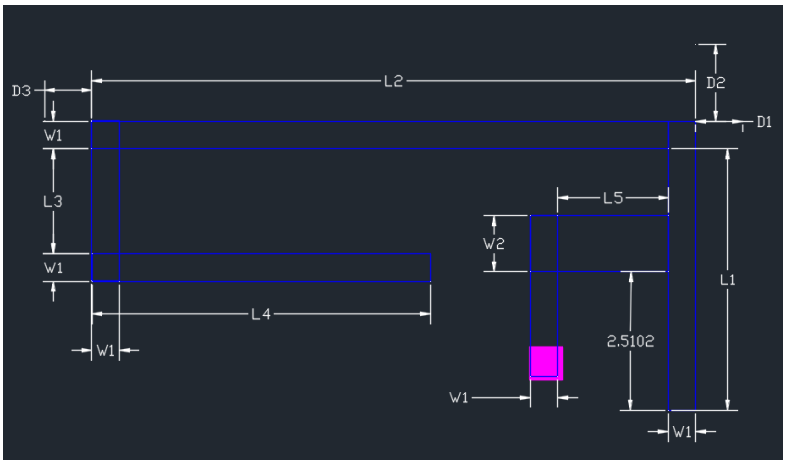


Figure 1: Antenna Dimensions

L1	4.73 mm
L2	10.96 mm
L3	1.90 mm
L4	6.14 mm
L5	2.01 mm
W1	0.50 mm
W2	1.00 mm
D1	3.00 mm
D2	0.26 mm

3 Product specifications

Electrical Specifications	
Frequency Range（MHz）	2400-2500
Gain（dBi）	0.8
VSWR	≤3
Input Impedance（Ω）	50
Polarization	Vertical
Maximum input power（W）	2
Input connector type	
Dimensions (mm)	10.5*3
Antenna weight（kg）	
Antenna color	

4 Reliability test

1	SAIT SPRAY TEST	Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6.5~7 Spray volume: 1.4me80cm ⁷ H compressed air pressure: 1kgf / cm ² Test Relativity: 98 ° Temperature: 45 °~ 47 ° Pressure temperature: 35 ° Test time: 24hr	All characteristic range is 30% of the initial value
2	HEAT TEST	85+2℃ for 96 hours, after keep in normal condition for 30mim the to test.	
3	HUMIDITY TEST	40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30mim the to test.	
4	COLD TEST	-40+2℃ for 96hours, after keep in normal condition for 30mim the to test.	

5 Electrical performance test

5.1 Test equipment and environment

测试设备

SATIMO-24

ETS

模拟人头手

安捷伦8960

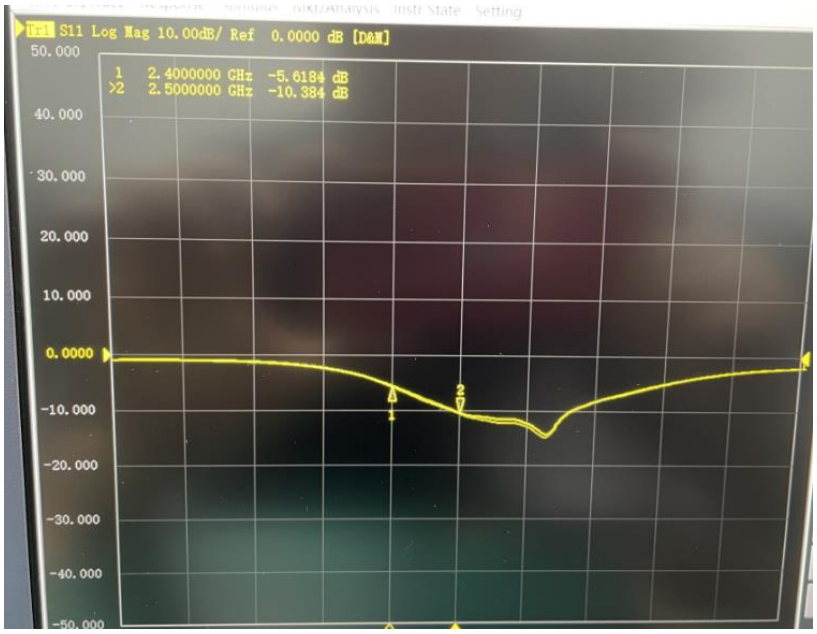
安利MT8820C

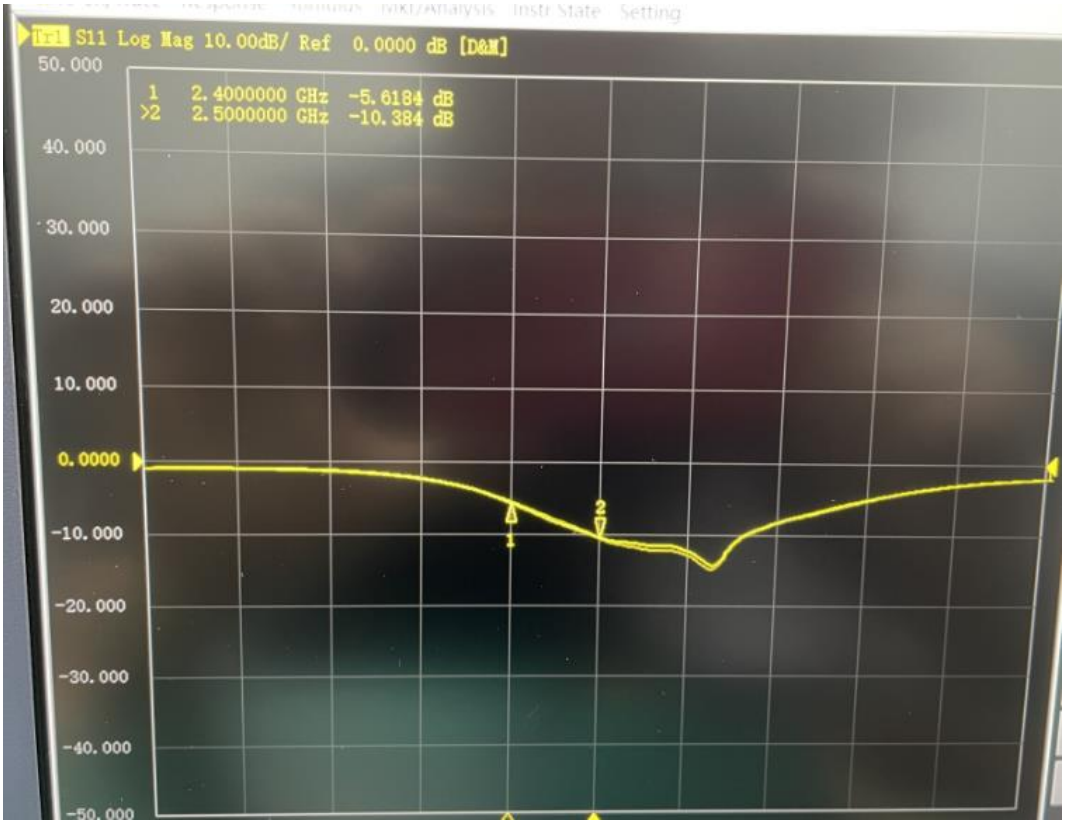
CMW500

安捷伦E5071C

测试系统	测试环 境	有源测试	无源测试
SATIMO—24 ETS	温度：22℃±3℃ 湿度：50%±15%	支持2G/3G/4G BT/WIFI/GPS	400MHZ——6G

5.2 Antenna Return Loss(RL) and SWR





6.3 Antenna passive test data

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2410.0	0.6	34.8%
2	2420.0	0.6	34.2%
3	2430.0	0.7	34.1%
4	2440.0	0.7	33.6%
5	2450.0	0.7	33.5%
6	2460.0	0.8	32.3%
7	2470.0	0.8	32%
8	2480.0	0.8	32.2%
9	2490.0	0.8	31.9%

2D CHART

Freq:2460M Gain(dBi)