

东莞市众驰电子有限公司
Dongguan Zhongchi Electronics Co.Ltd.

承认书
acknowledgment

Zhongchi P/N: ZCA2400-55B01-00X

Description : 2.4G Antenna L=50.0MM+

Manufacturer: Dongguan Zhongchi Electronic Technology Co., Ltd

ADD: Room 301, Building 2, No. 1, Jiaopu New Road, Changan
Town, Dongguan City, Guangdong Province

东莞市众驰电子有限公司
Dongguan Zhongchi Electronics Co.Ltd.

Contents

1 、 revision record.....	2
2 、 s p e c i f i c a t i o n	3
3 、 reliability experiment.....	4
4 、 Antenna radiation parameter.....	5
5 、 organization diagram.....	6

东莞市众驰电子有限公司
Dongguan Zhongchi Electronics Co.Ltd.

revision record

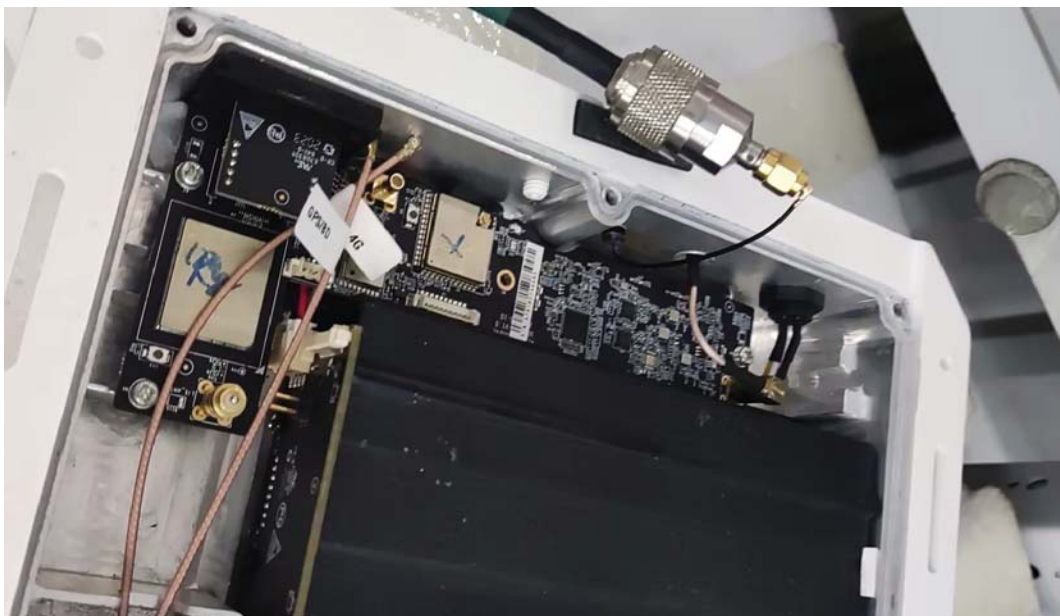
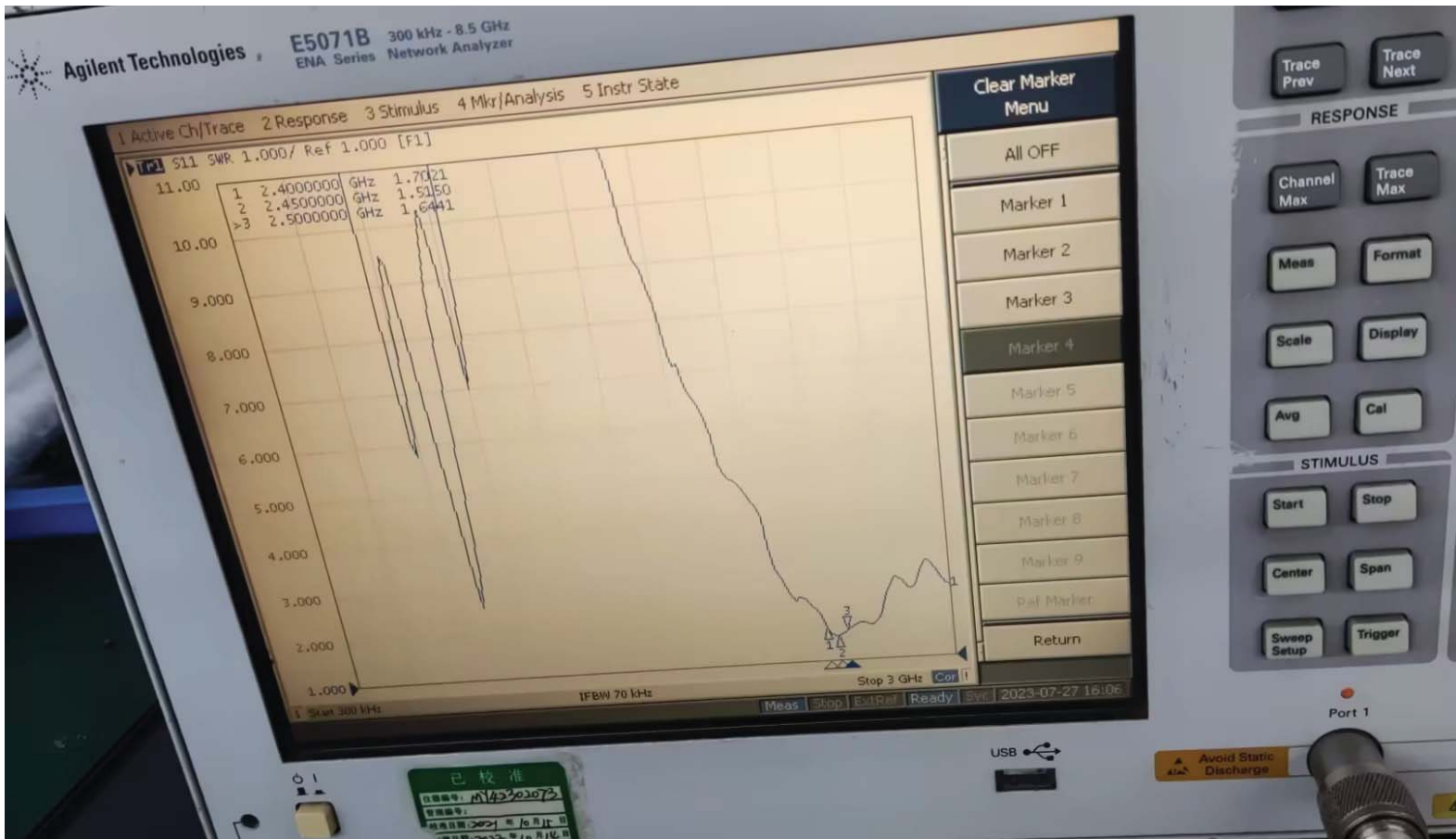
Revision	Date	Change Notification	Description
1.0	2023-07-31		

东莞市众驰电子有限公司
Dongguan Zhongchi Electronics Co.Ltd.

specification

Sample Photo	
A. Electrical Characteristics	
Frequency	2400-2500MHz
S.W.R.	≤ 2.0
Antenna Gain	3.79dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Spring Line
Material of Plastic	Body: ABS
Connector Type	Mini Connector Au Plated 1generation
Cable Type	O.D. 1.13mm
Connector Pull Test	≥ 3 Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C

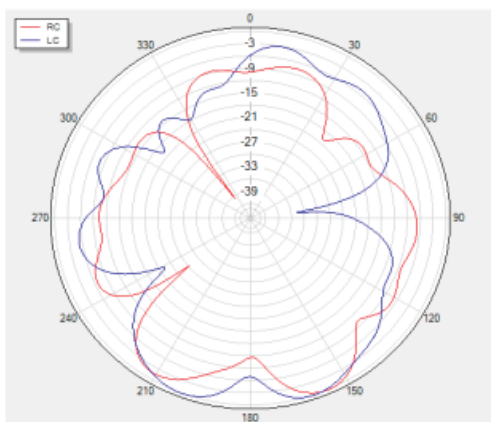
Antenna radiation parameter test data diagram



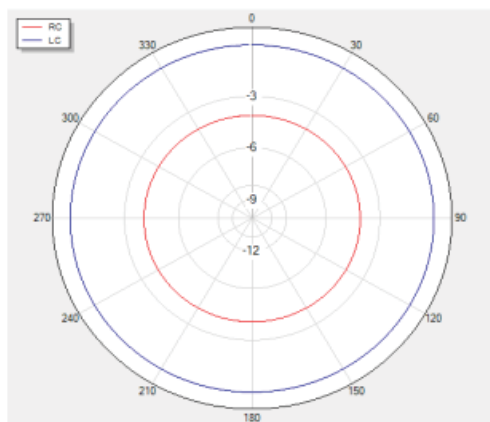
增益对应角度 Gain corresponding Angle

frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	1.31	-6.01	25.07
2410	0.73	-6.22	23.87
2420	1.3	-5.81	26.26
2430	1.18	-5.88	25.84
2440	0.74	-5.71	26.88
2450	1.41	-5.39	28.91
2460	1.50	-5.41	28.79
2470	1.56	-5.13	30.72
2480	2.21	-4.77	33.33
2490	1.77	-5.17	30.41
2500	2.25	-4.76	33.43
2510	2.73	-4.68	34.02
2520	2.53	-4.64	34.34
2530	3.14	-4.2	38.03
2540	3.43	-4.01	39.75
2550	3.13	-3.89	40.8
2560	3.55	-3.52	44.47
2570	3.74	-3.41	45.58
2580	3.05	-3.59	43.74
2590	3.79	-3.08	49.24
2600	3.38	-3.29	46.93

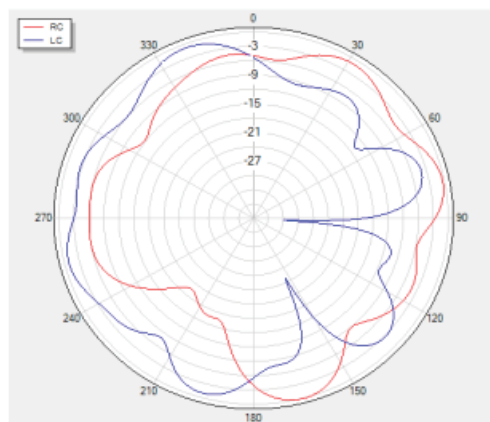
Phi=90 freq=2400MHz



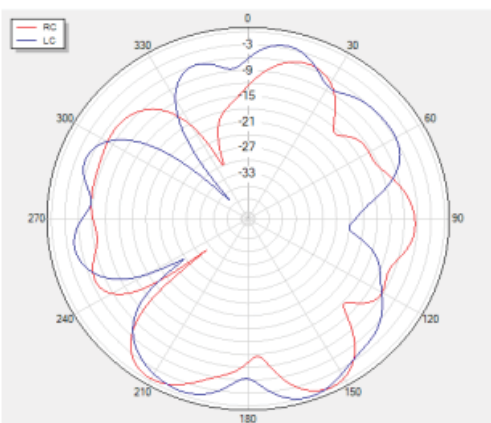
Theta=0 freq=2400MHz



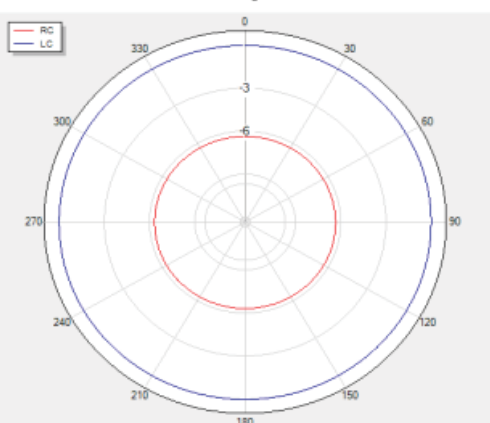
Theta=90 freq=2400MHz



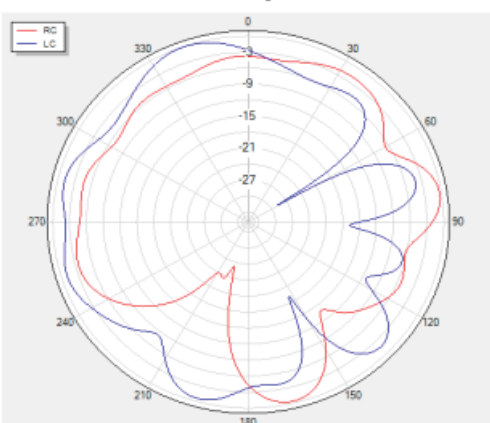
Phi=90 freq=2450MHz



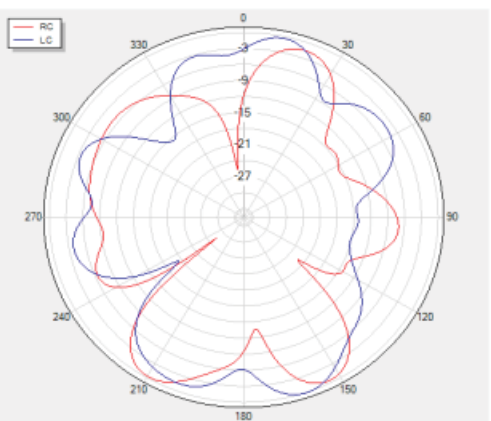
Theta=0 freq=2450MHz



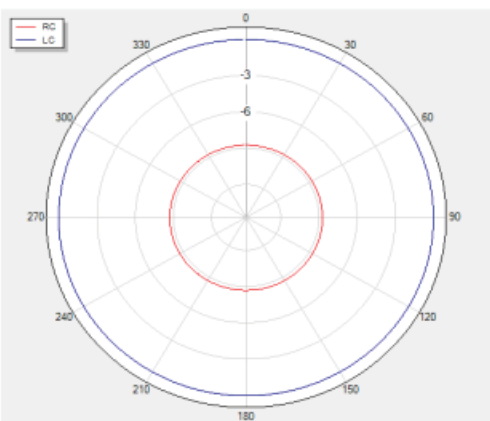
Theta=90 freq=2450MHz



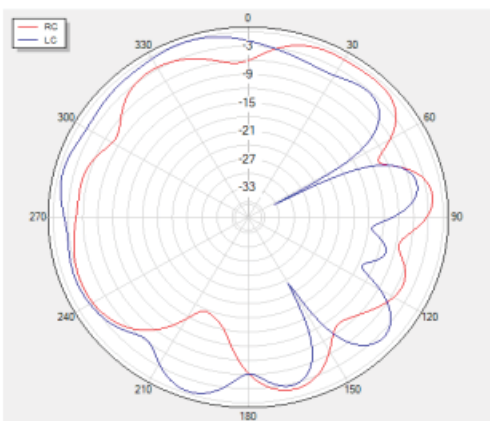
Phi=90 freq=2500MHz



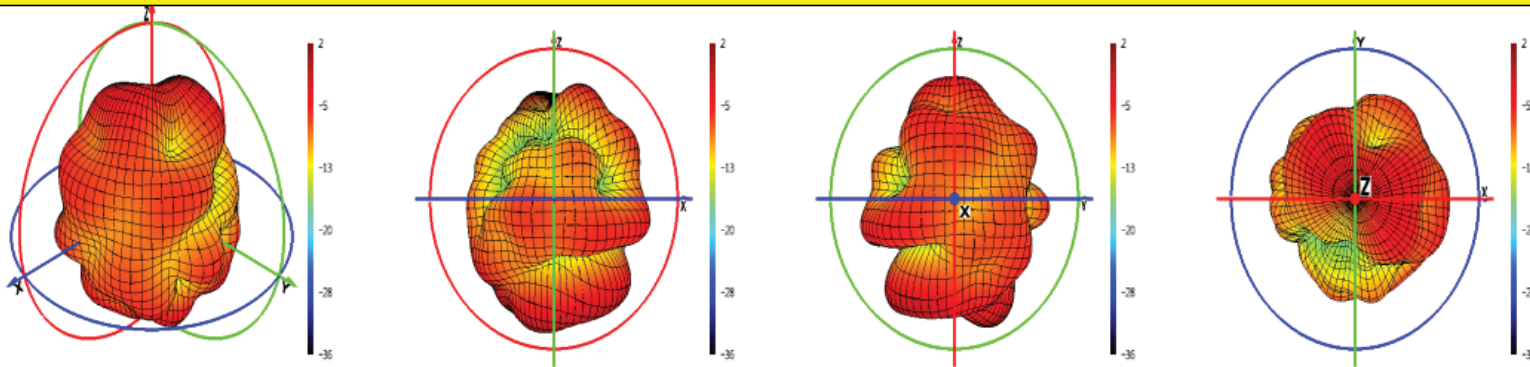
Theta=0 freq=2500MHz



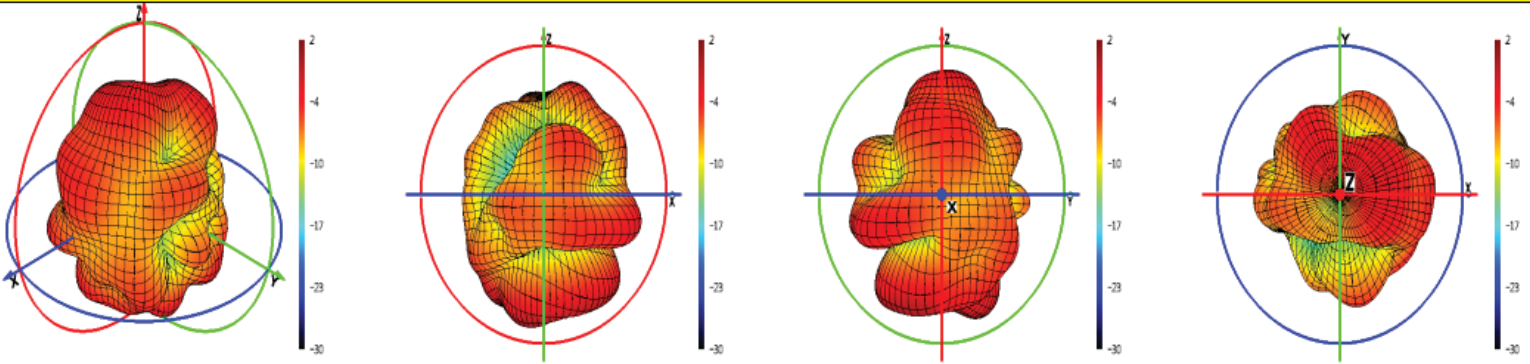
Theta=90 freq=2500MHz



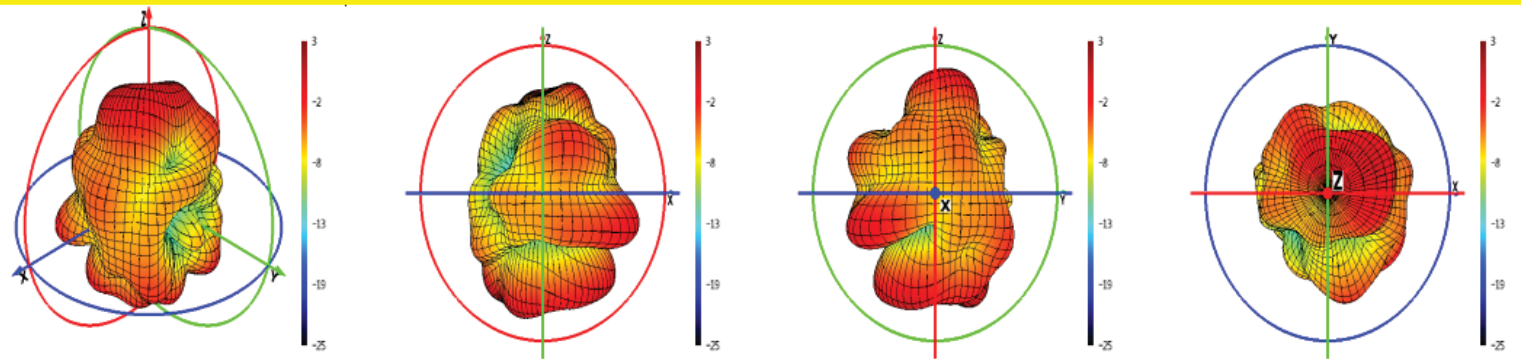
2400MHz



2450MHz



2500MHz



RoHS
Compatible

CUSTOMER
PART NO

REV.

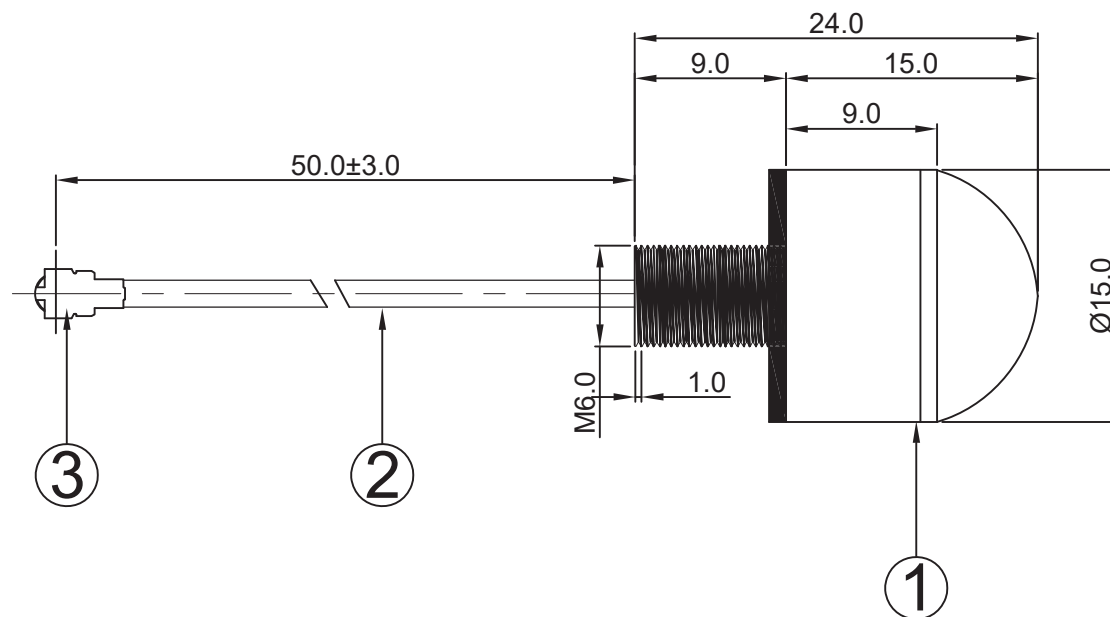


DESCRIPTION

Initial release

DATE

2023-06-15



Screw specification: M6*1.0

4	Mini Connector	Cu Au Plated 1O.D.	1
3	Coaxial Cable	1.13 mm Gray	1
2	EVA	15.0*1.0MM	1
1	Antenna Cap	TPE,Color:Black	1
NO	PART NAME	DESCRIPTION	Q.TY



Dongguan Zhongchi Electronic Technology Co., Ltd Tel 0769-81238620
Fax:0769-81238620

PART NAME: 2.4G Antenna L=50.0mm

PART NO.:ZCA2400-55B01-00X

DATE:2023-06-15

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.15

REVISION: A

X° ±3°

Huang Wang Chun