



TopGain

SPECIFICATION

DESCRIPTION	Chip Antenna
PART NO.	CH2G4-6022-000D1-01
VERSION	V01

頂益科技有限公司

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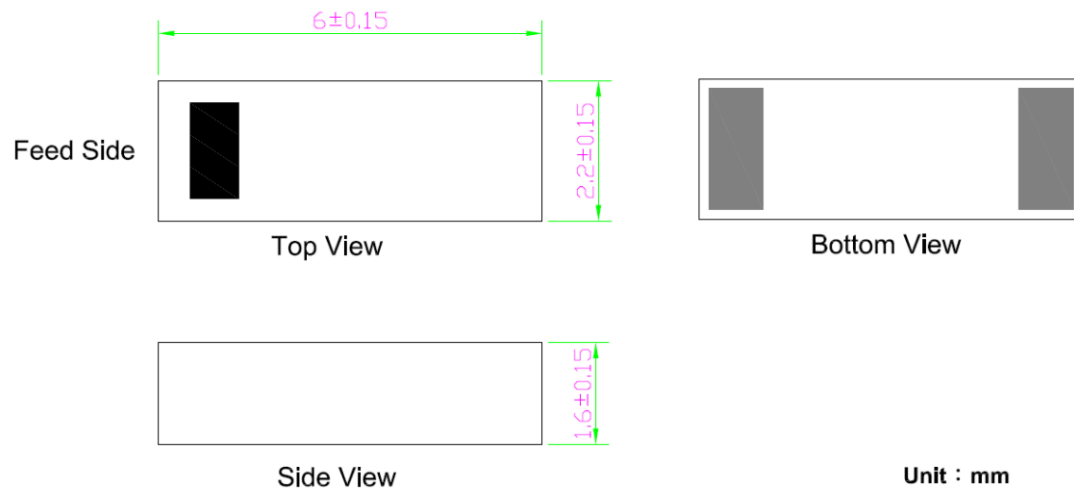
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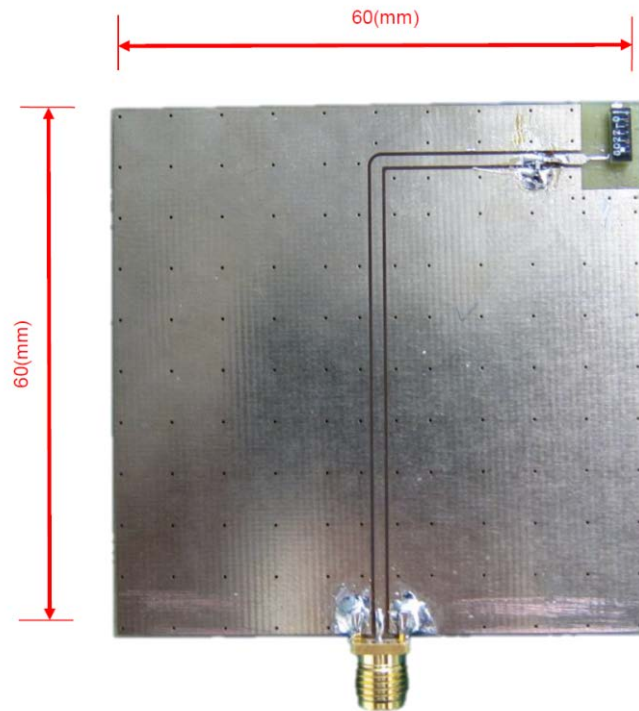
1. Antenna Specification

Outline Dimensions	6.0x2.2x1.6(mm)
Ground Plane	60×60(mm)
Frequency Range	2.4GHz ~ 2.5GHz
Impedance	50 Ohm Nominal
Bandwidth (under -10dB return loss)	100MHz (Typ.)
Radiation	Omni-directional
Peak Gain	2.3 dBi (Typ.)
Efficiency	60% (Typ.)
Polarization	Linear Polarization
Storage Temp	-25℃ ~ +85℃
Color	Black

2. Antenna Dimension

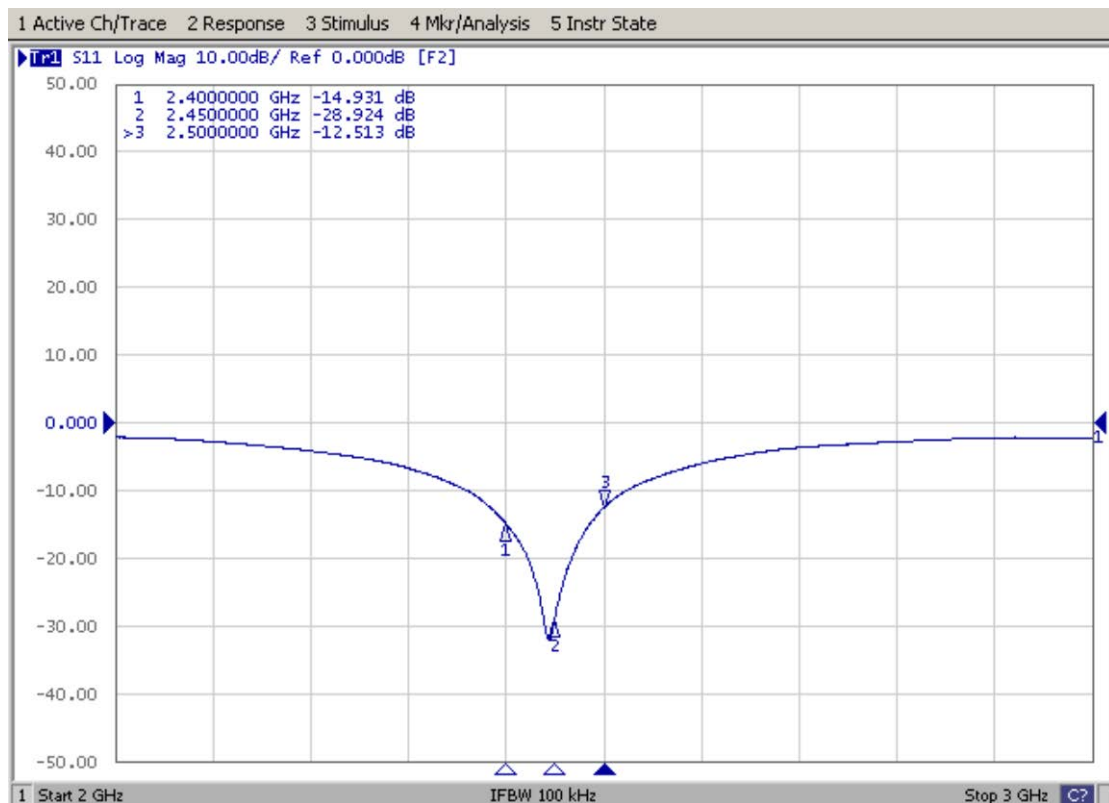


3. Test Data

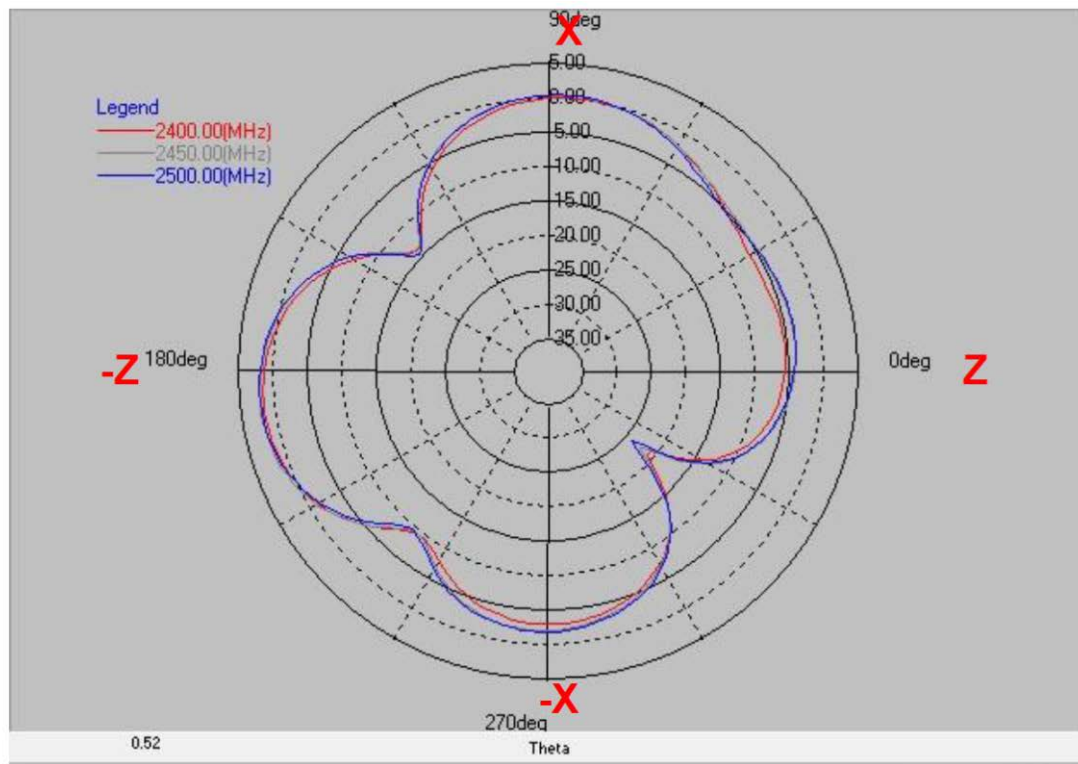


3.1 ELECTRICAL CHARACTERISTICS

S11

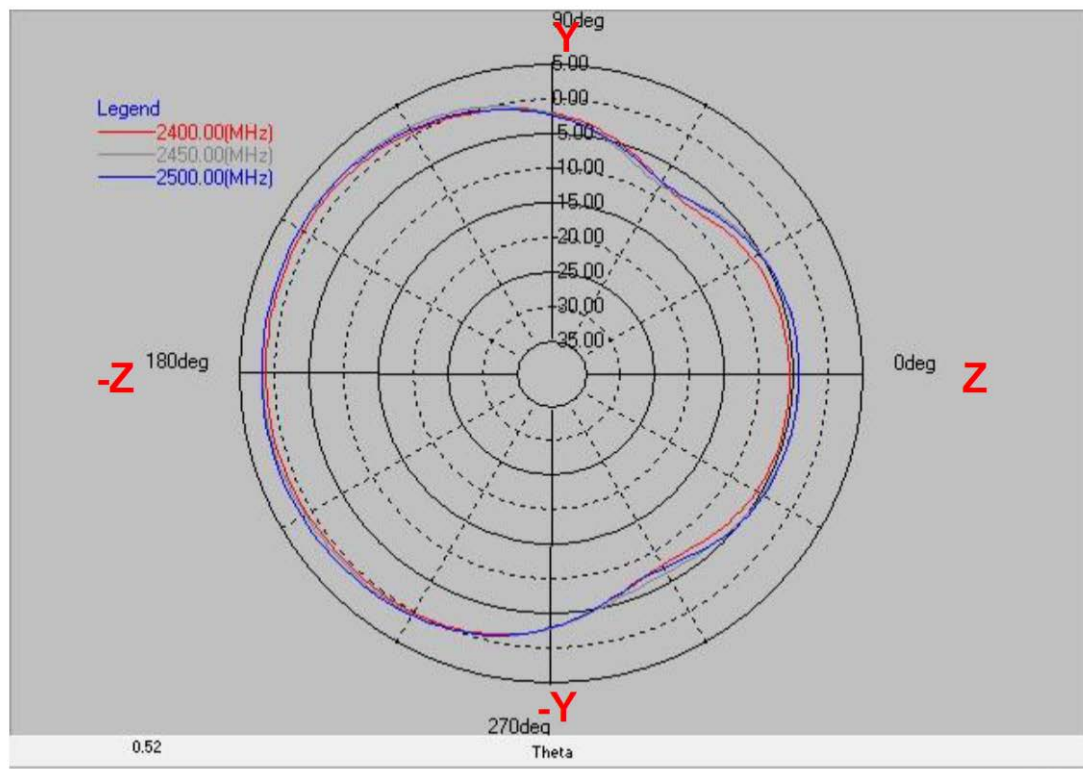


Frequency(MHz) : **2400~2500.** Pattern Field : **Z-X plane**



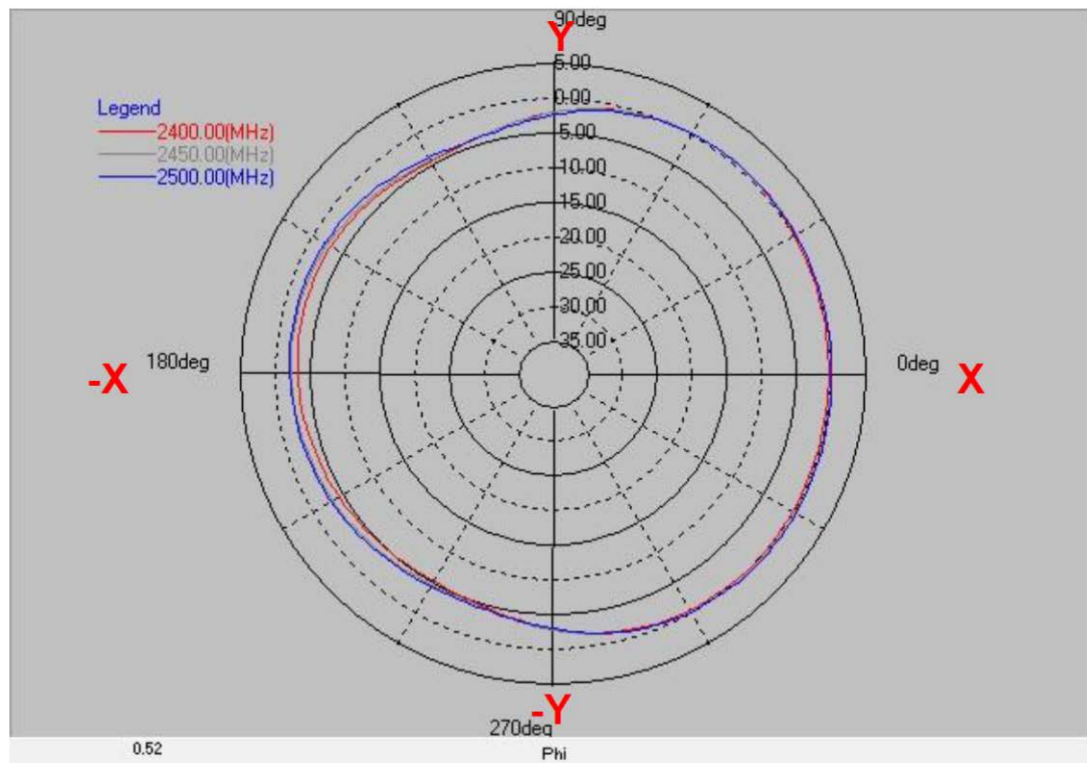
Frequency	Max value(dBi)	Min value(dBi)	Average(dBi)
2400(MHz)	1.64	-21.05	-3.40
2450(MHz)	2.12	-22.47	-2.82
2500(MHz)	2.08	-24.13	-2.88

Frequency(MHz) : 2400~2500. Pattern Field : Z-Y plane



Frequency	Max value(dBi)	Min value(dBi)	Average(dBi)
2400(MHz)	1.45	-8.68	-1.62
2450(MHz)	2.00	-8.51	-1.09
2500(MHz)	1.92	-8.10	-1.08

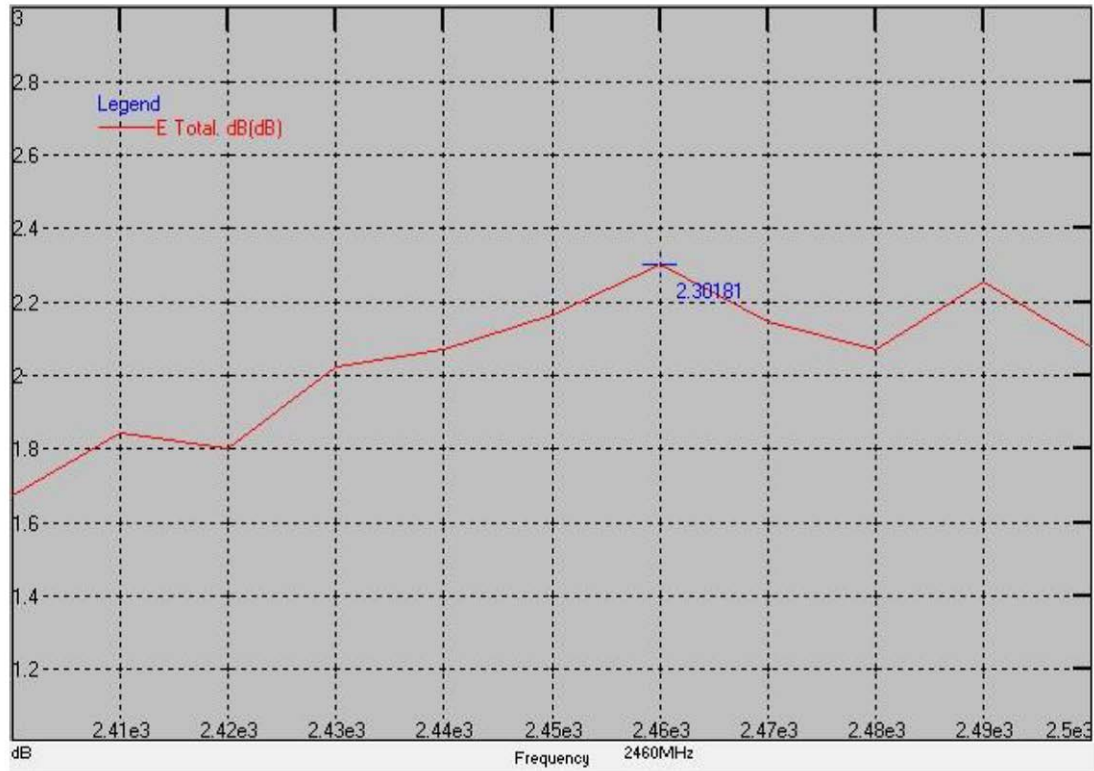
Frequency(MHz) : **2400~2500.** Pattern Field : **X-Y plane**



Frequency	Max value(dBi)	Min value(dBi)	Average(dBi)
2400(MHz)	0.30	-5.40	-1.82
2450(MHz)	0.41	-4.87	-1.47
2500(MHz)	0.38	-4.66	-1.40

3.2 Antenna Peak Gain

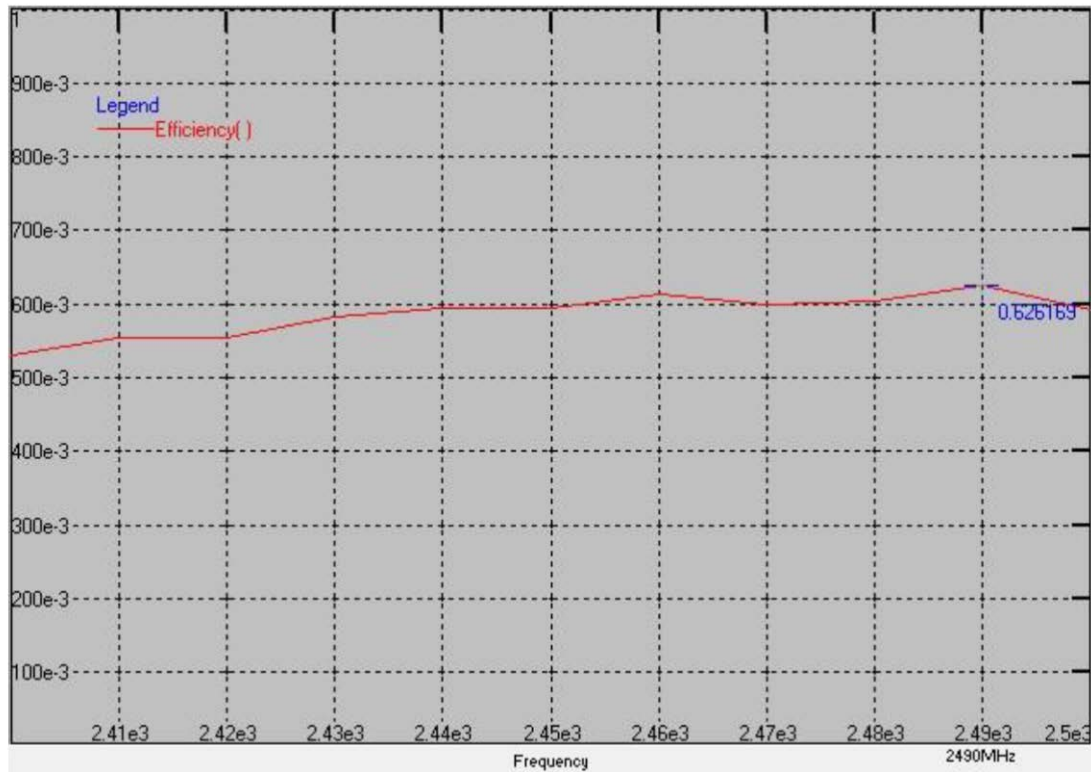
Frequency(MHz) : 2400~2500.



Peak Gain : Max 2.3dBi @ 2460 MHz

3.3 Antenna Efficiency

Frequency(MHz) : 2400~2500.



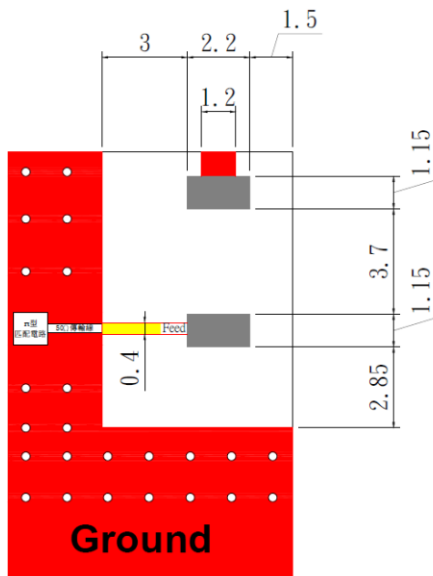
Efficiency : Max 62 % @ 2490 MHz

4. Layout Guide:

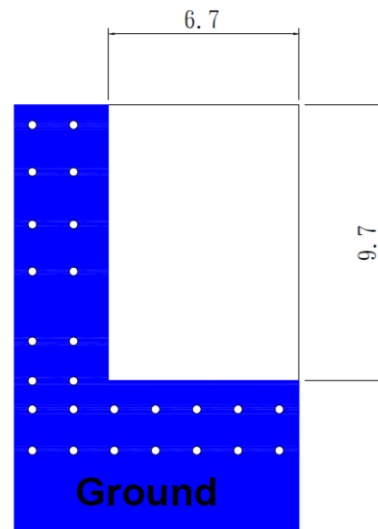
a. Solder Land Pattern:

Land pattern for soldering (black marking areas) is as shown below.

Matching circuit is needed for good performance, when customer's device is different.



Top Layout



Bottom Layout

Unit:mm

5. Soldering Conditions:

a. Typical Soldering Profile for Lead-free Process

