



TopGain

SPECIFICATION

DESCRIPTION	Chip Antenna
PART NO.	CHGPS-1002-000D1-01
VERSION	V01

頂益科技有限公司

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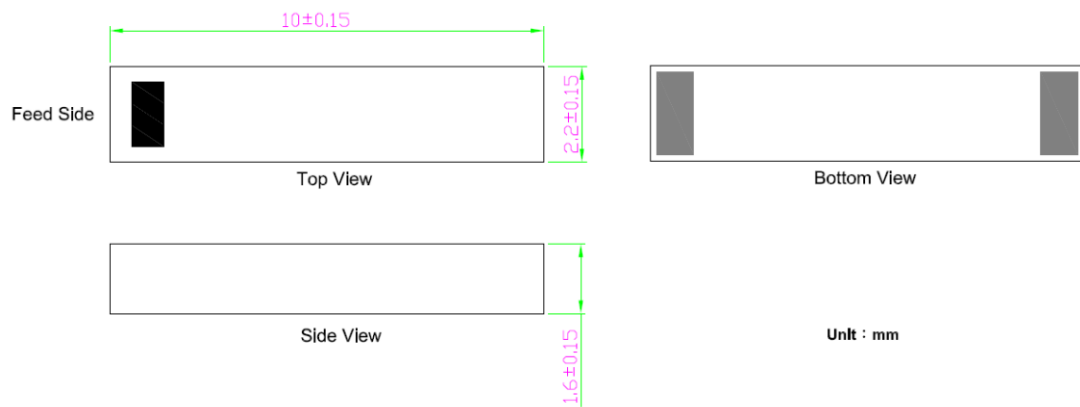
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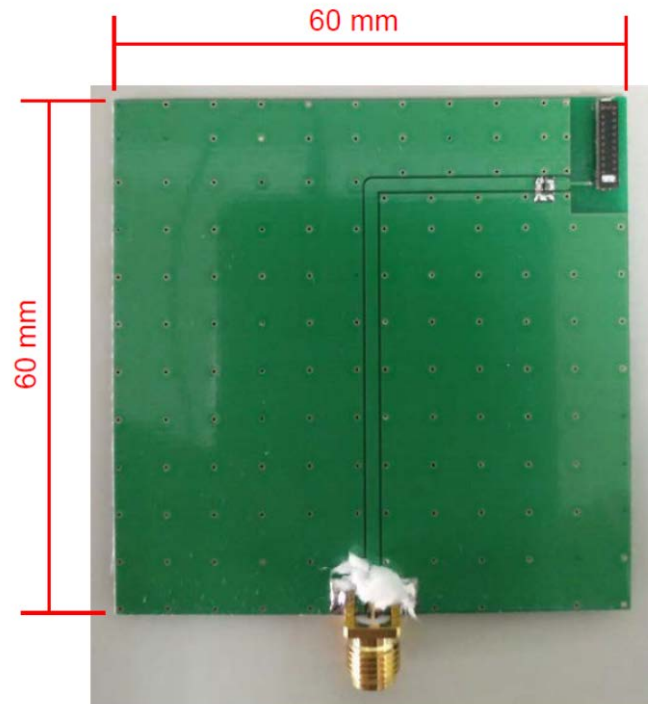
1. Antenna Specification

Outline Dimensions	10.0x2.2x1.6(mm)
Ground Plane	60×60(mm)
Frequency Range	1575 MHz
Impedance	50 Ohm Nominal
Peak Gain	1.38 dBi (Typ.)
Efficiency	54% (Typ.)
Polarization	Linear Polarization
Storage Temp	-25℃ ~ +85℃
Color	Black

2. Antenna Dimension

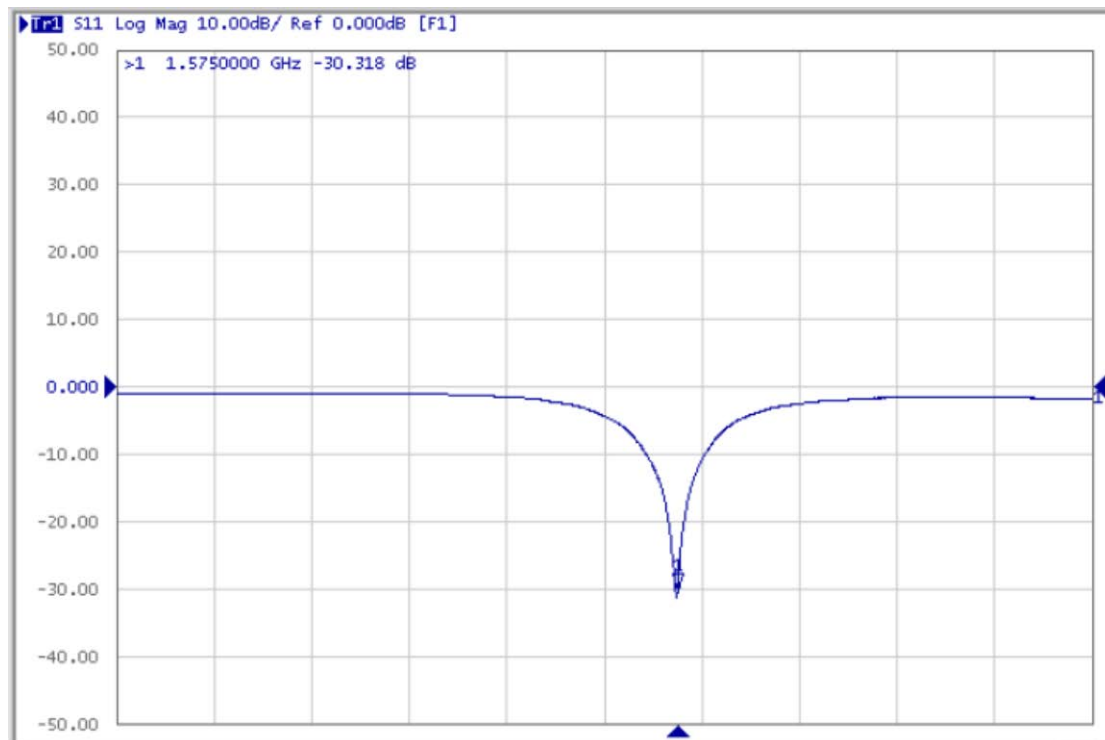


3. Test Data



3.1 ELECTRICAL CHARACTERISTICS

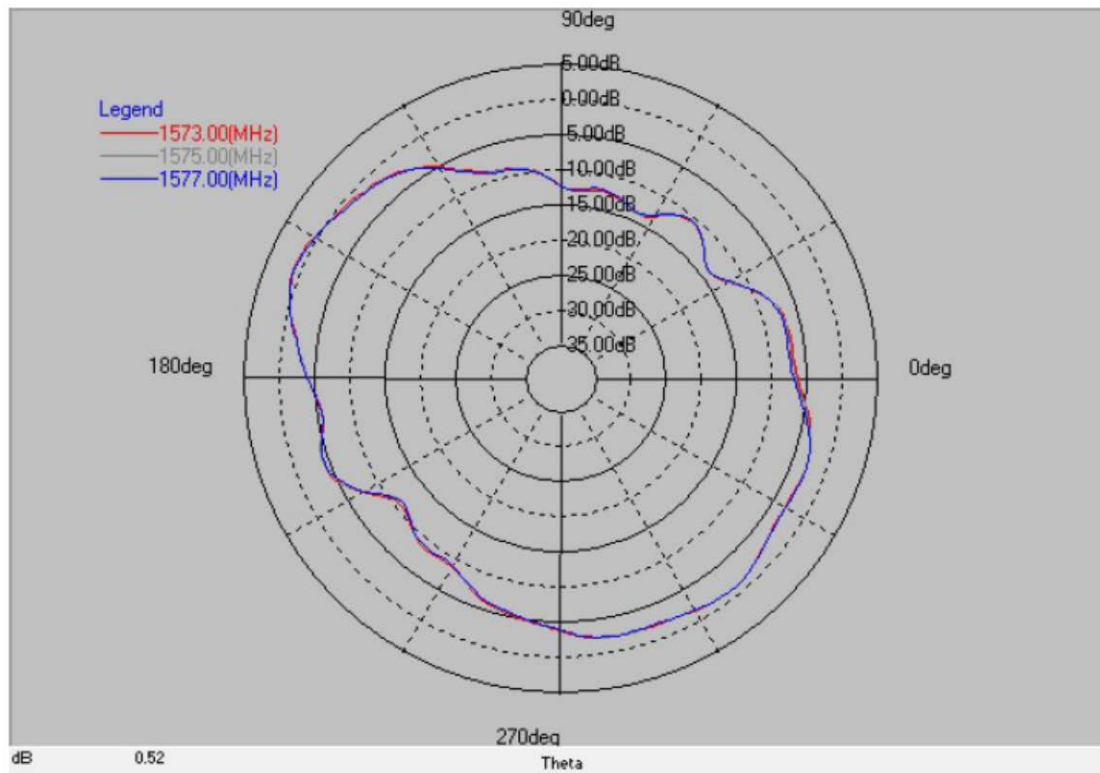
S11



Frequency(MHz) : **1575**

Pattern Field : **Z-X plane**

Phi=0
Z-X

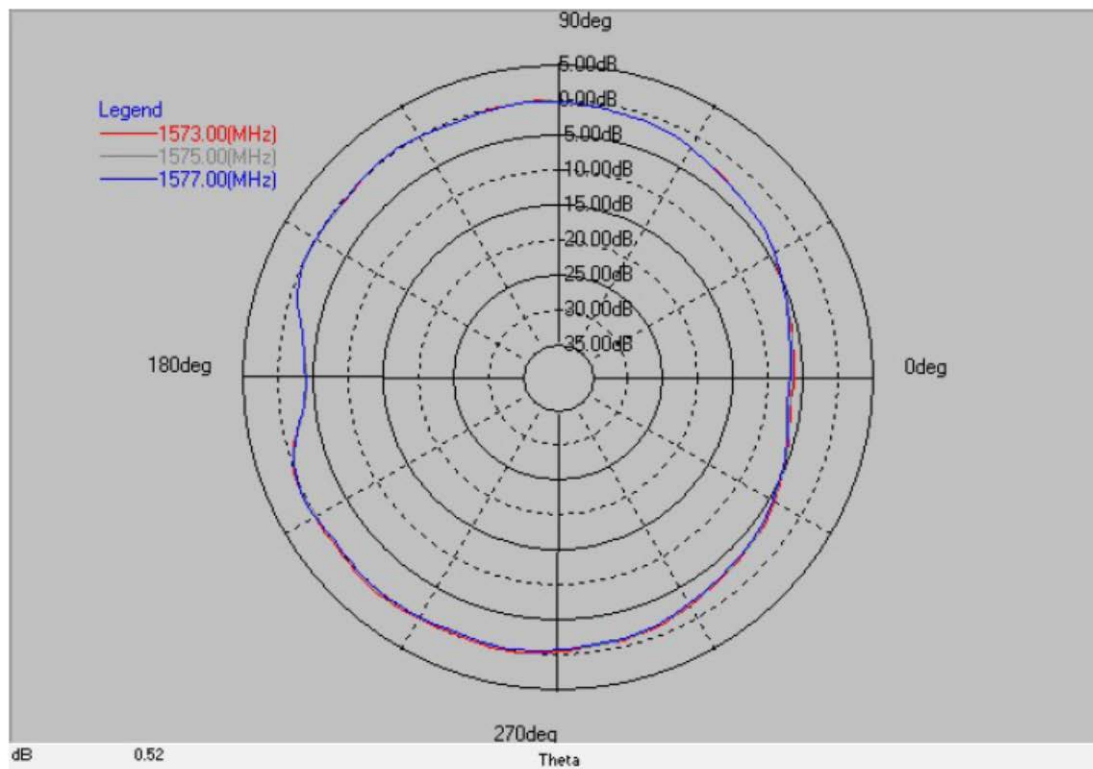


Frequency	Max value	Min value	Average
1575(MHz)	1.23 dB	-13.97 dB	-3.51 dB

Frequency(MHz) : **1575**

Pattern Field : **Z-Y plane**

Phi=90
Z-Y

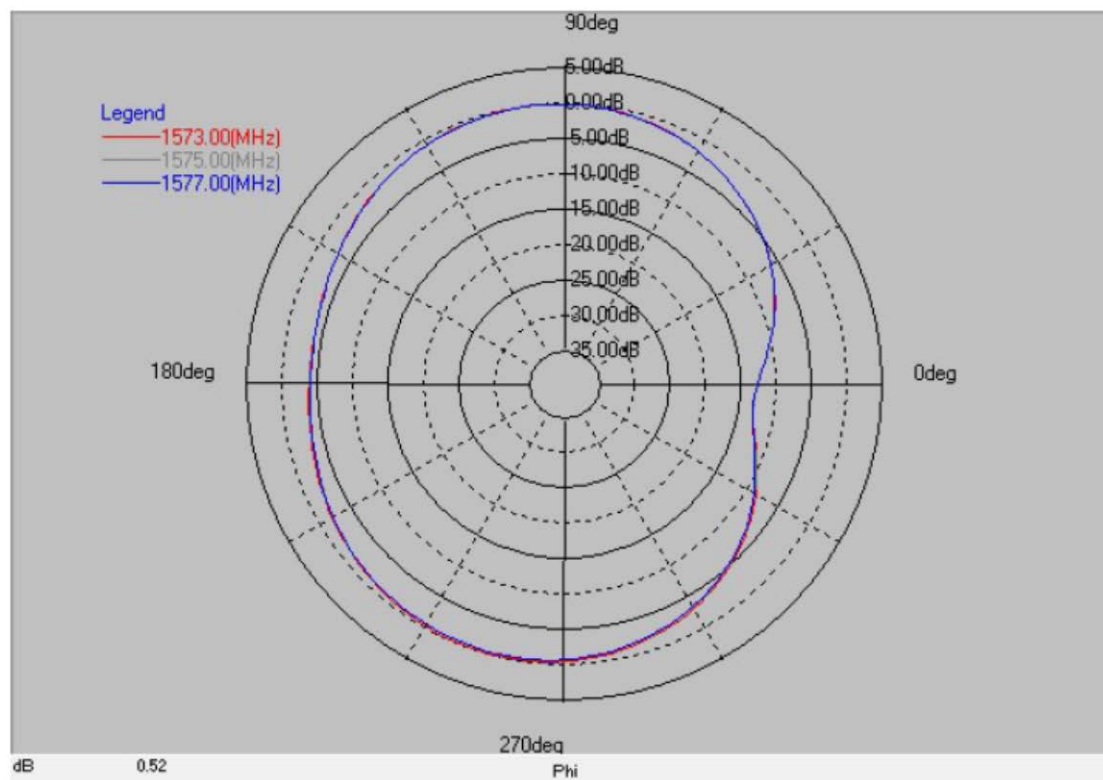


Frequency	Max value	Min value	Average
1575(MHz)	0.90 dB	-6.68 dB	-1.66 dB

Frequency(MHz) : **1575**

Pattern Field : **X-Y plane**

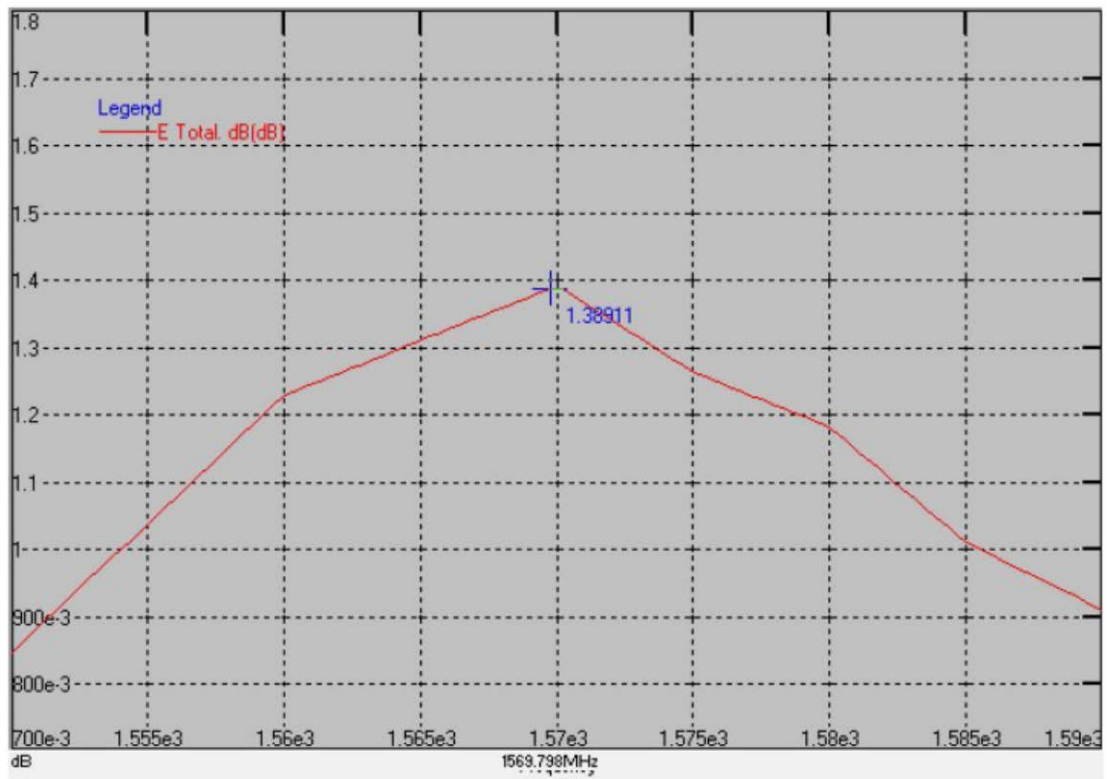
Theta=90
X-Y



Frequency	Max value	Min value	Average
1575(MHz)	-0.34 dB	-12.98 dB	-2.71 dB

3.2 Antenna Peak Gain

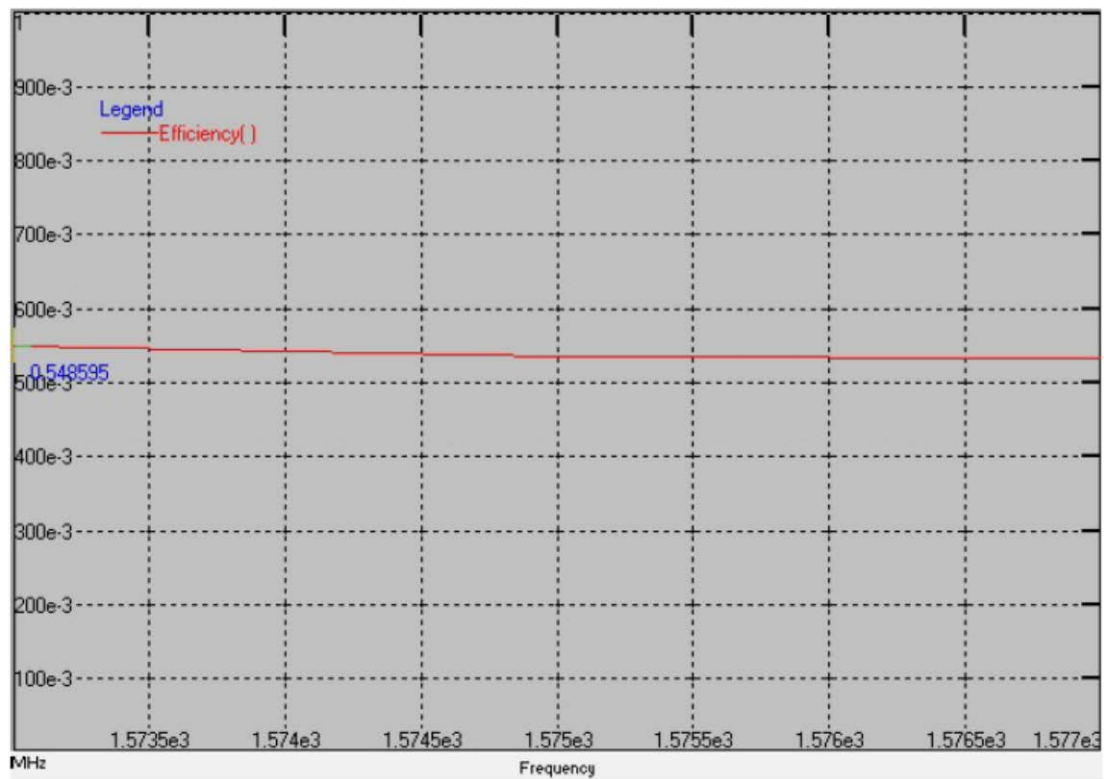
Frequency(MHz) : 1575



Peak Gain : Max 1.38 dBi

3.3 Antenna Efficiency

Frequency(MHz) : 1575



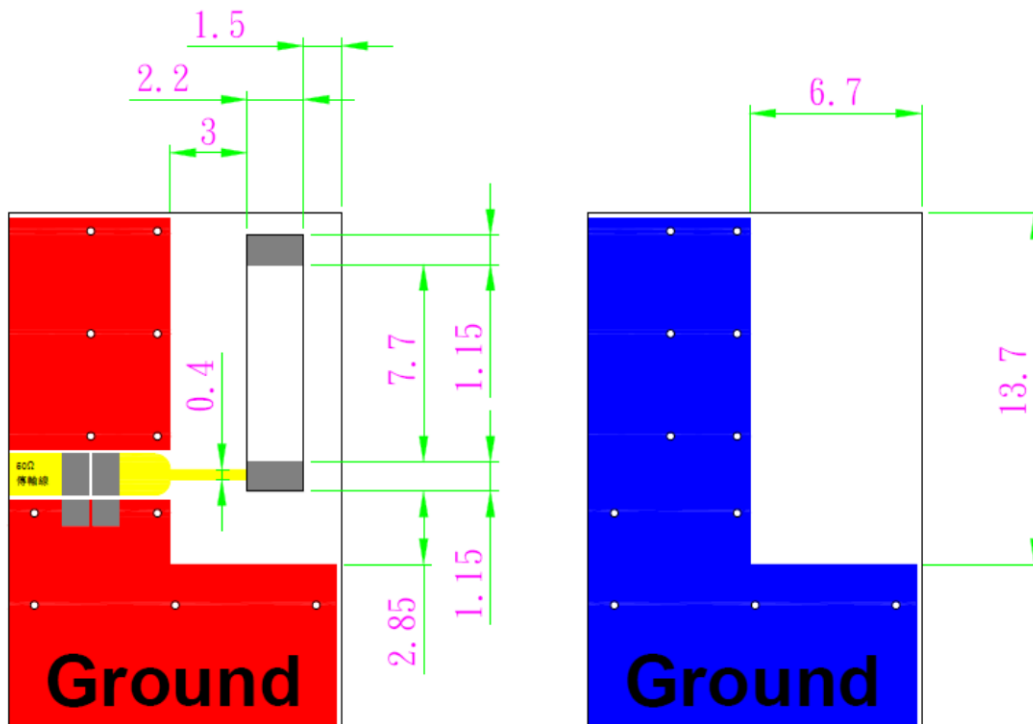
Efficiency : Max 54%

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

