

# APPROVAL SHEET

## (RoHS)

**CUSTOMER** : **LG ELECTRONICS**

**CUSTOMER'S  
PART NO.**

:

**DESCRIPTION**

:

**PIFA antenna**

**PART NO.**

:

**3010000268ID**

**DATE**

:

**2012.05.07**

**AUTHORIZED BY**

:

**Bradley Hung**

| SIGN   | Design | Approved |
|--------|--------|----------|
| LiteOn |        |          |
| LG     |        |          |

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**LITEON**

**May. 2012**

# Antenna Specification

## Specification

### ELECTRICAL PROPERTIES

- 1.1 Frequency Range.....2.4GHz
- 1.2 Impedance..... 50 Ohm Nominal
- 1.3 VSWR..... 2 (Max)
- 1.4 Return Loss..... -10dB (Max)
- 1.5 Radiation.....Omni-directional
- 1.6 Polarization.....Linear Vertical
- 1.7 Admitted Power.....1W
- 1.8 Peak Gain..... 2.71 dBi

### PHYSICAL PROPERTIES

- 2.1 Cable..... $\phi$ 1.13mm Coaxial Cable ( Gray )
- 2.2 Antenna Cover..... TPEE
- 2.3 Antenna Base..... PC/PBT
- 2.4 Color .....Gray
- 2.5 Connector..... TNOV
- 2.6 Operating Temp..... -20 °C ~ +65 °C
- 2.7 Storage Temp..... -30 °C ~ +75 °C

# Mechanical Specification

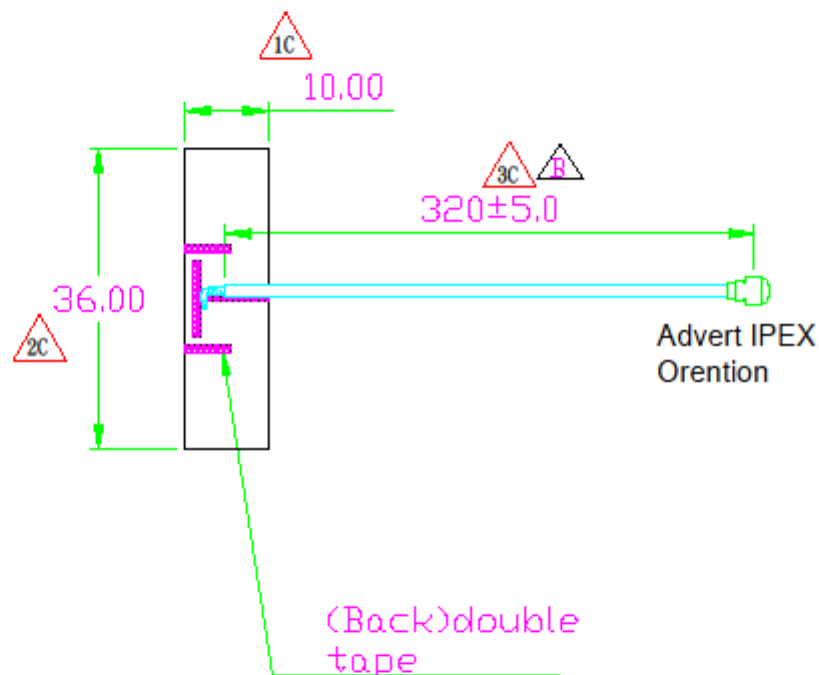
RoHS COMPLIANT

## MECHANICAL

Body : SUS430(鍍鎳) T=0.3mm  
Double Tape: 3M 9448 36\*10mm

## ELECTRICAL

Frequency : 2.4GHz  
Cable : Coaxial Cable  $\phi 1.13$ (Gray)  
Connector: TNOV



**(Package) 16pcs/Bag**

| △   | Modify Cable Length | 3/4/12 | Fchou   |
|-----|---------------------|--------|---------|
| △   | New Release         | 4/6/12 | Fchou   |
| LTR | DESCRIPTION         | DATE   | REQ. BY |

※凡標記△記號者, 為品管檢驗之尺寸

|                              |                                |
|------------------------------|--------------------------------|
| 設計DR.<br>Fchou<br>2011/04/06 | 核准APPL.<br>Marco<br>2012/04/06 |
| 版本說明                         | REVISION NOTE                  |

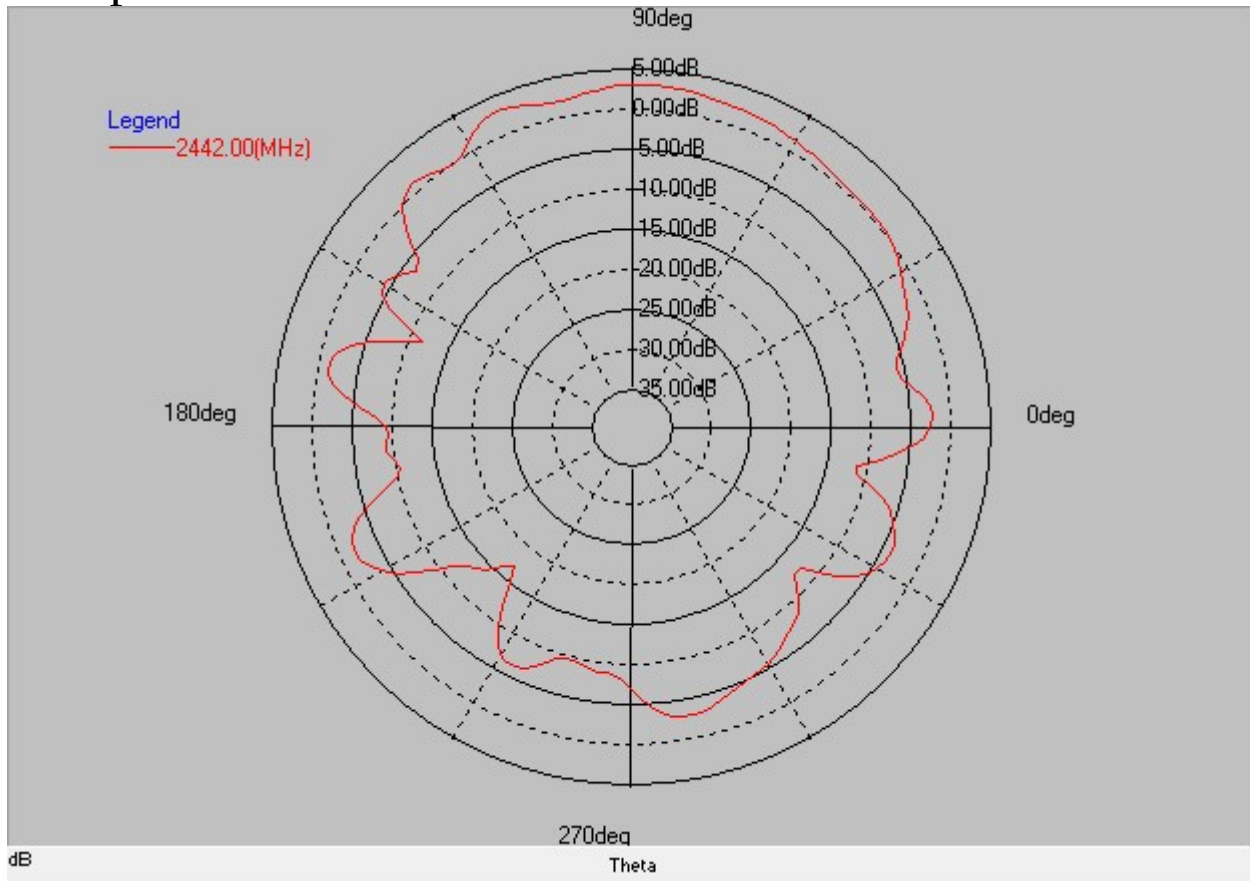
| 容許公差 | TOLERANCE |
|------|-----------|
| .XXX | ±0.20     |
| .XX  | ±0.35     |
| .X   | ±0.50     |
| X    | ±1.00     |
| ANG  | ±5        |

|                                           |
|-------------------------------------------|
| 品名<br>ARTICLE<br><b>MSA-3610-2G4C1-A5</b> |
|-------------------------------------------|

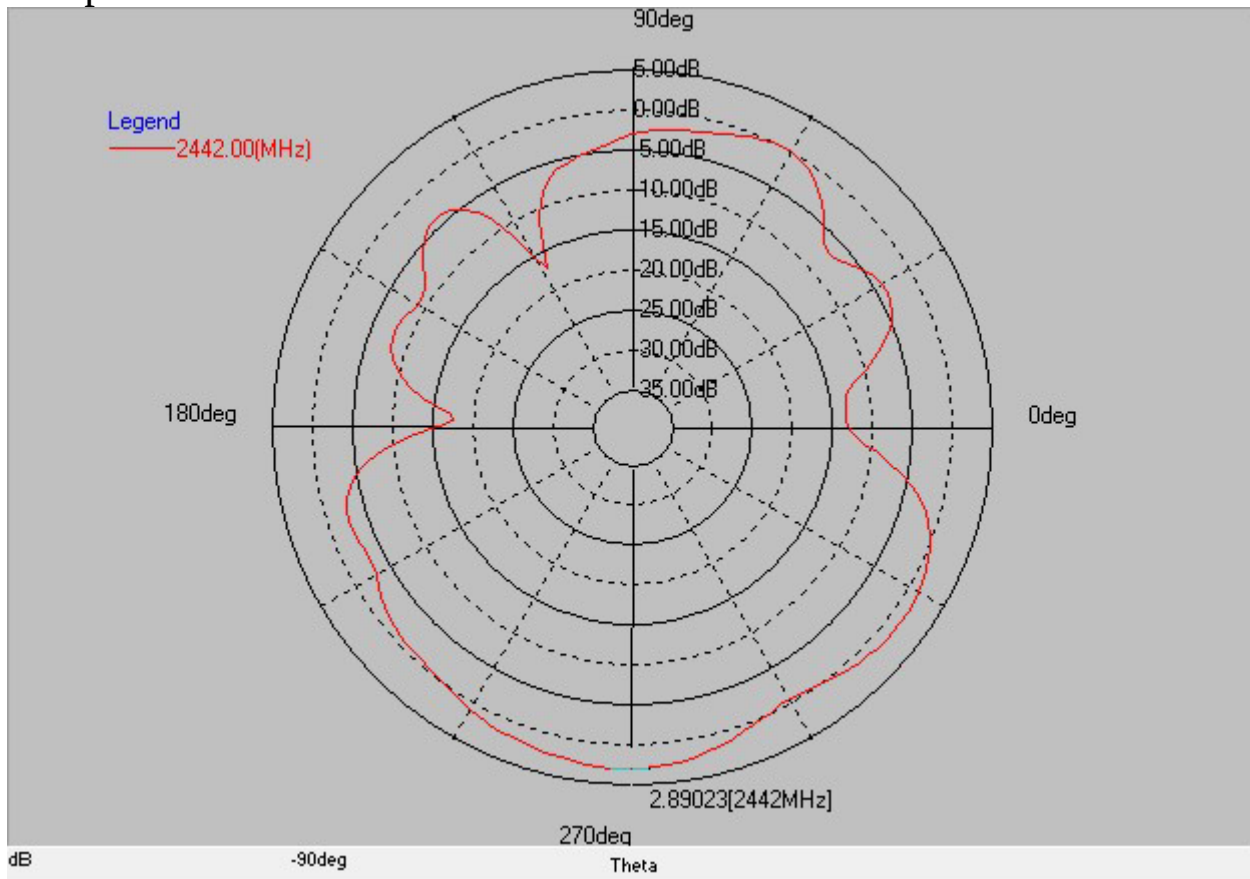
|        |  |               |                  |               |              |
|--------|--|---------------|------------------|---------------|--------------|
| LITEON |  | 單位 UNIT<br>mm | 比例 SCALE<br>**** | 張數 SHEET<br>1 | 版本 REV.<br>B |
|--------|--|---------------|------------------|---------------|--------------|

## 2-D Radiation Pattern

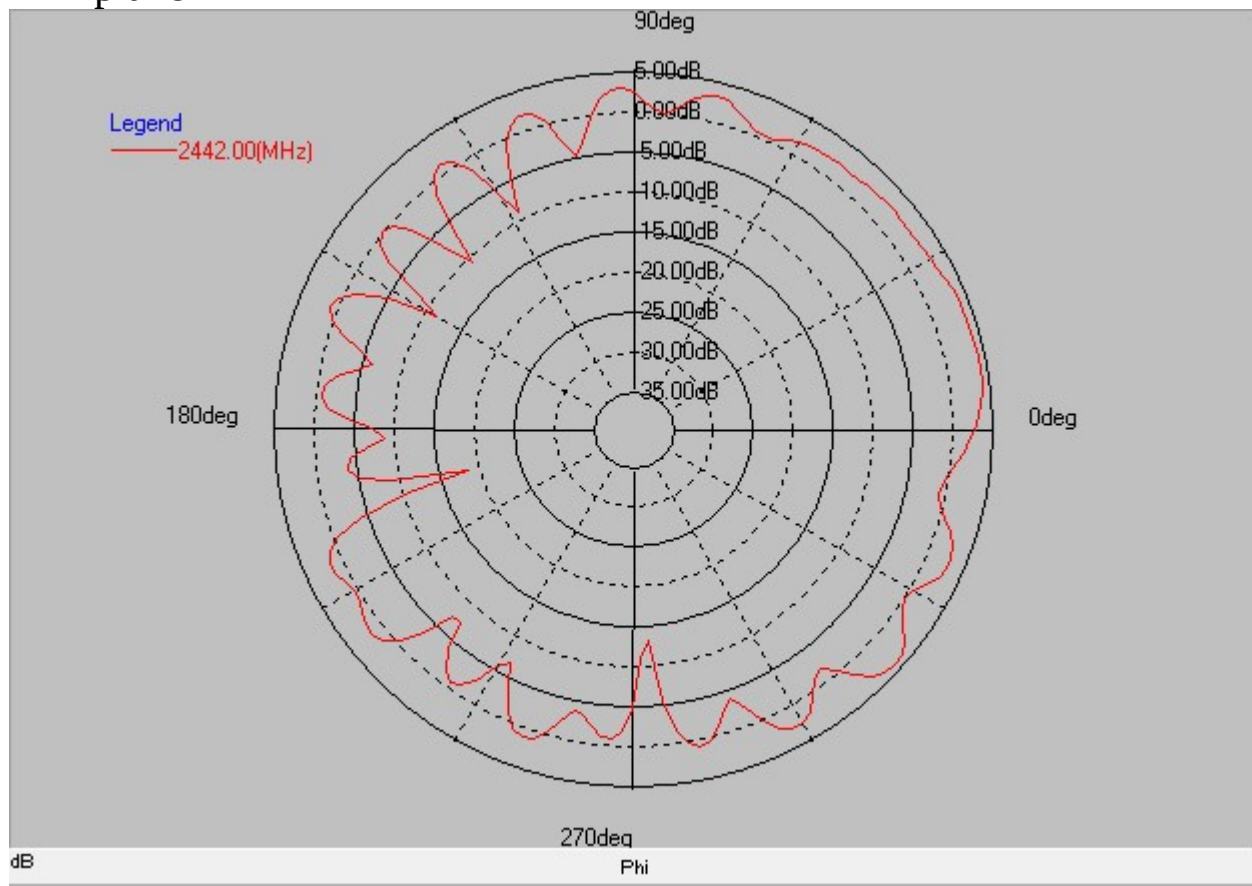
X-Z plane



Y-Z plane



X-Y plane



Antenna Peak Gain Table

| Frequency (MHz) | Peak Gain (dBi) |
|-----------------|-----------------|
| 2400            | 2.24            |
| 2420            | 2.54            |
| 2442            | 2.71            |
| 2460            | 2.45            |
| 2484            | 2.32            |