

# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT8010LL04R2400A

2.4 - 2.5 GHz

8010 Series



FEATURES

- Compact size
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- 2.4 GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

ORDERING INFORMATION

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

**PART NUMBER**

**ANT 8010 L L04 R 2400A**  
(1) (2) (3) (4) (5) (6)

**(1) PRODUCT**

ANT = Antenna

**(2) SIZE**

8010=8.0x1.0 mm

**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

**(4) SERIAL NO.**

L04

**(5) PACKING STYLE**

R = Tape and Reel

**(6) WORKING FREQUENCY**

2400 = 2.4 - 2.5 GHz

**PHYCOMP CTC**

CAN4311781042453K

**I2NC**

431178104245

**SPECIFICATION**

Table 1

| DESCRIPTION                   | VALUE                                       |
|-------------------------------|---------------------------------------------|
| Working Frequency             | 2.4 - 2.5 GHz                               |
| Bandwidth                     | 170 MHz (Typ.)                              |
| Polarization                  | Linear                                      |
| Azimuth Beamwidth             | Omni-directional                            |
| Peak Gain                     | 5.46 dBi (Typ.)                             |
| Impedance                     | 50 ohm                                      |
| Operating Temperature         | - 40~105 °C                                 |
| Maximum Power                 | 1 W                                         |
| Termination                   | Ni / Sn (Environmentally-Friendly Leadless) |
| Resistance to Soldering Heats | 260°C , 10sec.                              |

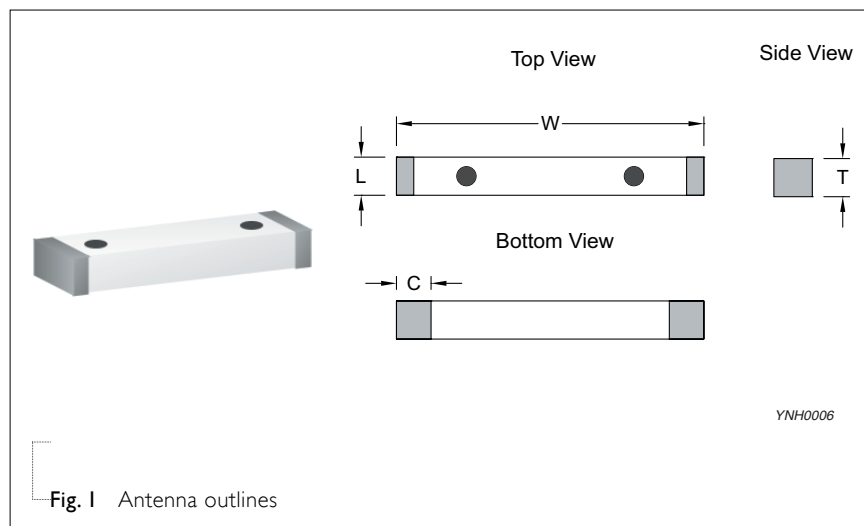
**NOTE**

1. The specification is defined on Yageo evaluation board

**DIMENSIONS**

Table 2 Machinical Dimension

|        | DIMENSION  |
|--------|------------|
| L (mm) | 1.00 ±0.10 |
| W (mm) | 8.00 ±0.10 |
| T (mm) | 1.00 ±0.10 |
| C (mm) | 0.90 ±0.15 |

**OUTLINES**

REFERENCE DESIGN OF EVALUATION BOARD

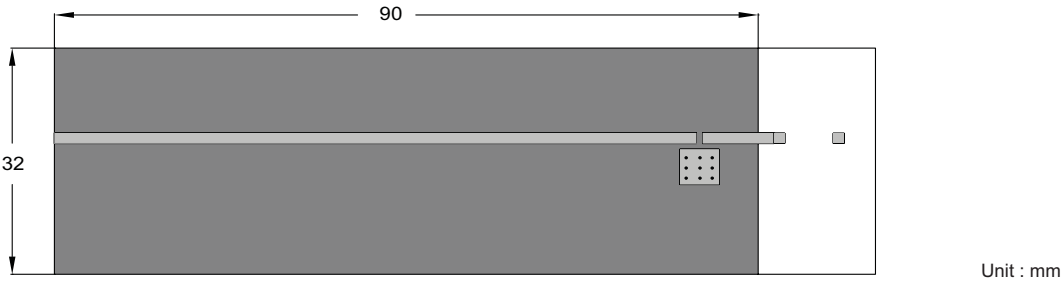


Fig. 3 Outlook and dimension of evaluation board

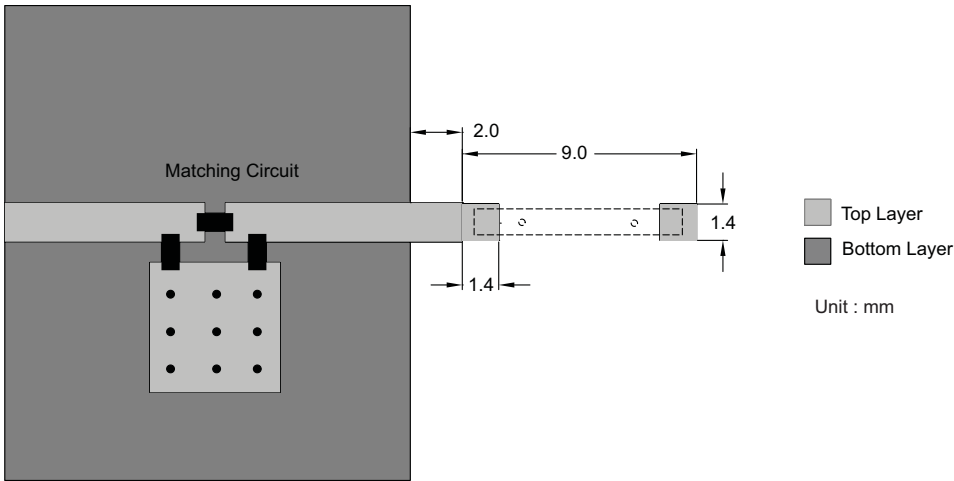
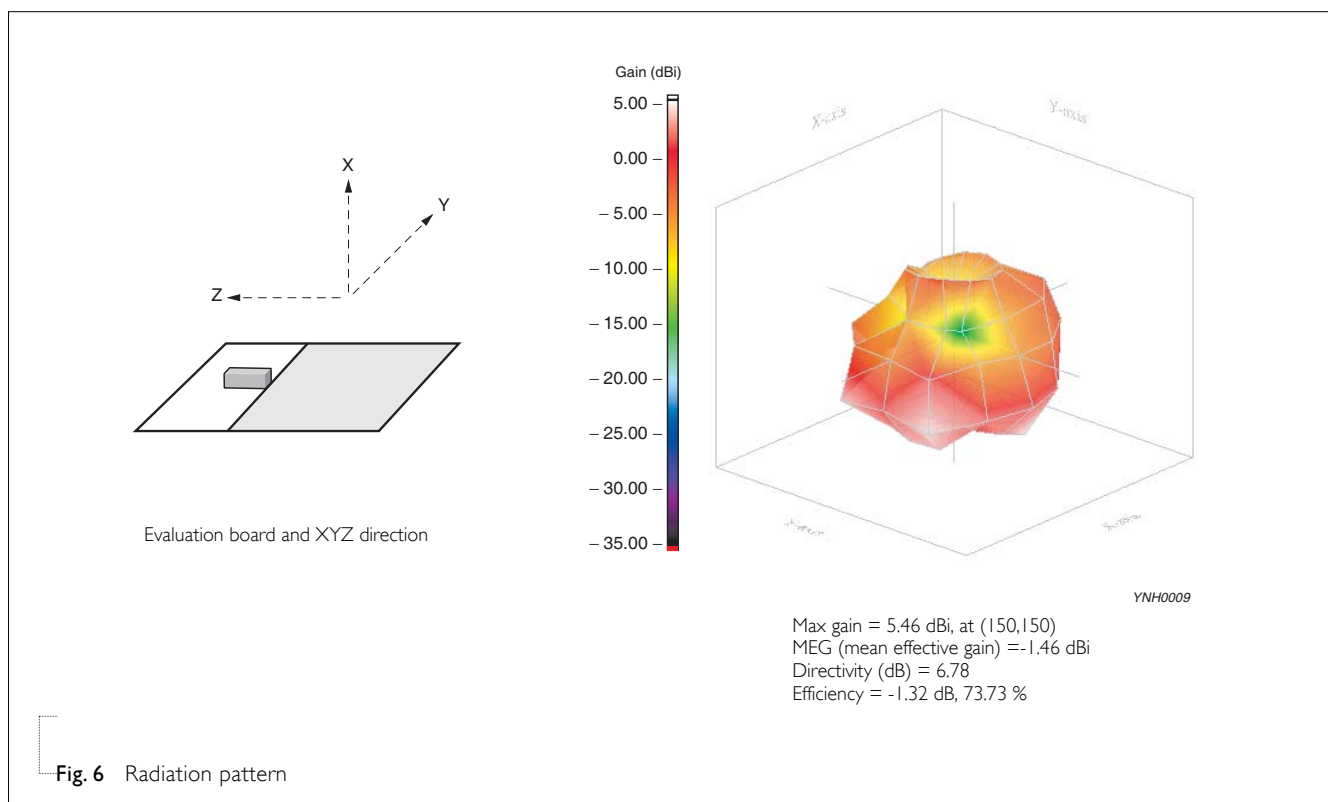
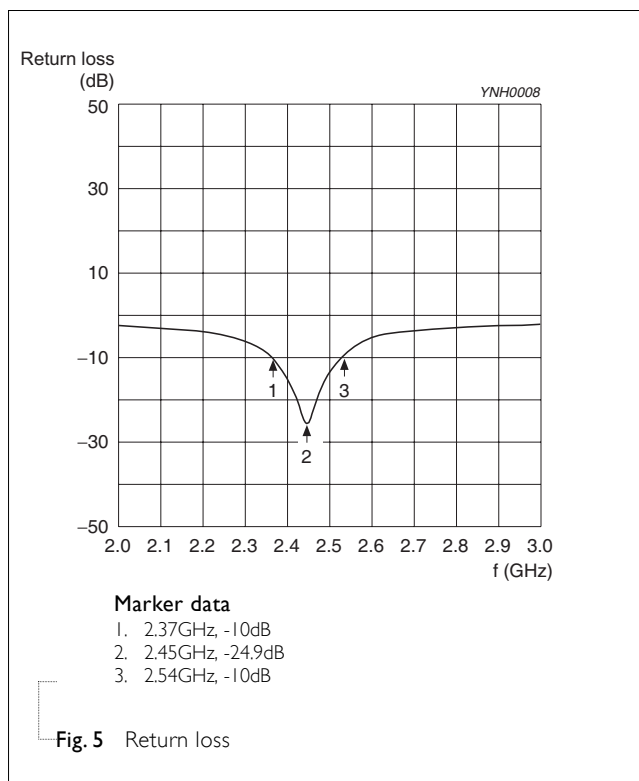


Fig. 4 Details of soldering pad

YNH0007

**ELECTRICAL PERFORMANCES**

# REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|----------|------|---------------------|-------------|
|----------|------|---------------------|-------------|

|           |               |   |                                                                         |
|-----------|---------------|---|-------------------------------------------------------------------------|
| Version 0 | Feb. 04, 2013 | - | - New datasheet for SMD type antenna, 2.45 GHz application, 8010 series |
|-----------|---------------|---|-------------------------------------------------------------------------|

## 기 자 재 확 인 서

# Equipment Confirmation

- 기자재의 명칭/ Product name: KICKR
- 모 델 명/Model #: WF113
- 확인내용/Confirmation Summary: external photos, internal photos,  
Schematics,block diagram,Antenna Specification and PCB layout
- 확인일자/Confirmation Date: August 30, 2016
- 확 인 자/Confirmation Reviewer: Martin Ma

-서명/Signature:

