

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT3216LL00R2400A

2.4 - 2.5 GHz

3216 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 3216 L L00 R 2400A
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

3216 = 3.2 × 1.6 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L00

(5) PACKING TYPE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

PHYCOMP CTC

CAN4311712002453K

I2NC

431171200245

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-------------------------------|---|
| Working Frequency | 2.4 - 2.5 GHz |
| Bandwidth | 160 MHz |
| Polarization | Linear |
| Azimuth Beamwidth | Omni-directional |
| Peak Gain | 5.05 dBi (Typ.) |
| Impedance | 50Ω |
| Operating Temperature | -40 ~ 105°C |
| Maximum Power | 1W |
| 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) | 3.20 ±0.15 |
| W (mm) | 1.60 ±0.15 |
| T (mm) | 1.20 ±0.15 |
| C (mm) | 0.40 ±0.20 |

Table 3 Termination configuration

| TERMINAL NAME | FUNCTION |
|---------------|-----------------|
| S1 | Feeding Point |
| S2 | Soldering Point |

OUTLINES

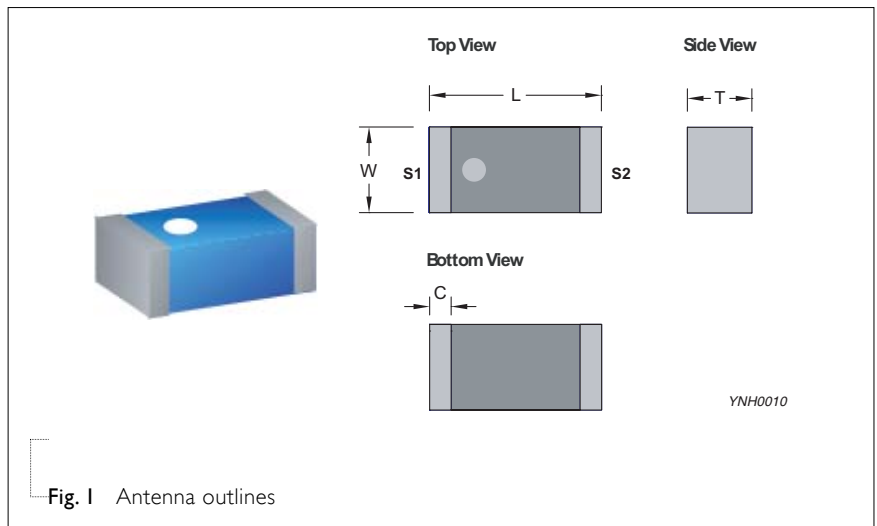


Fig. 1 Antenna outlines

REFERENCE DESIGN OF EVALUATION BOARD

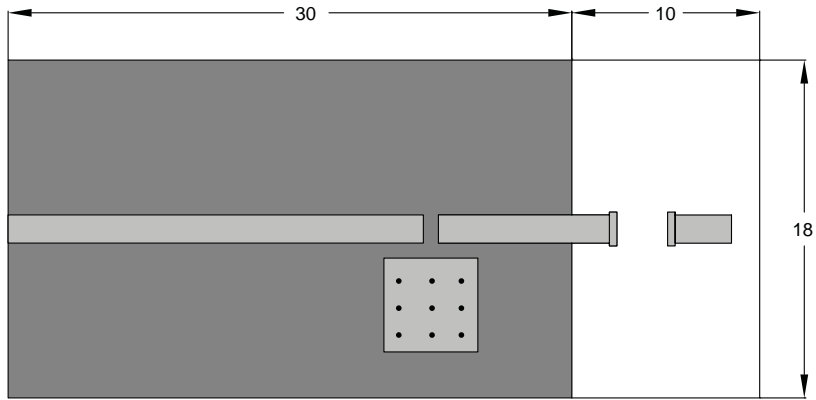


Fig. 2 Outlook and dimension of evaluation board

Unit : mm

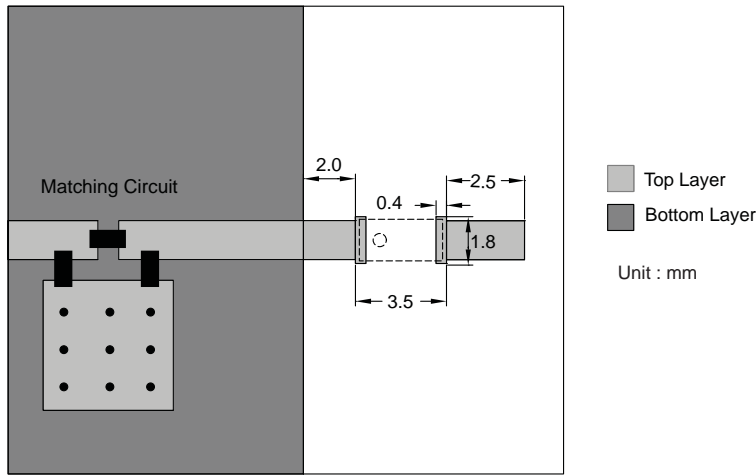
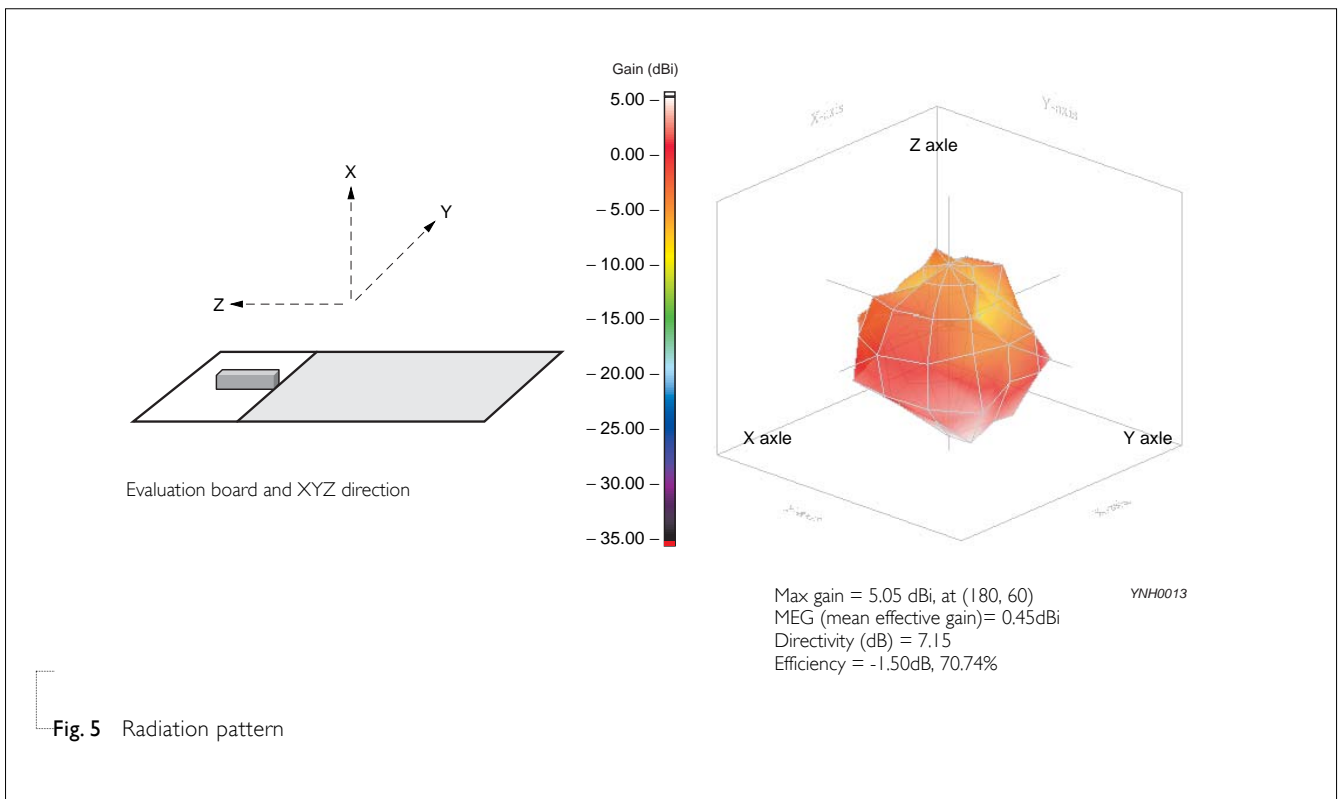
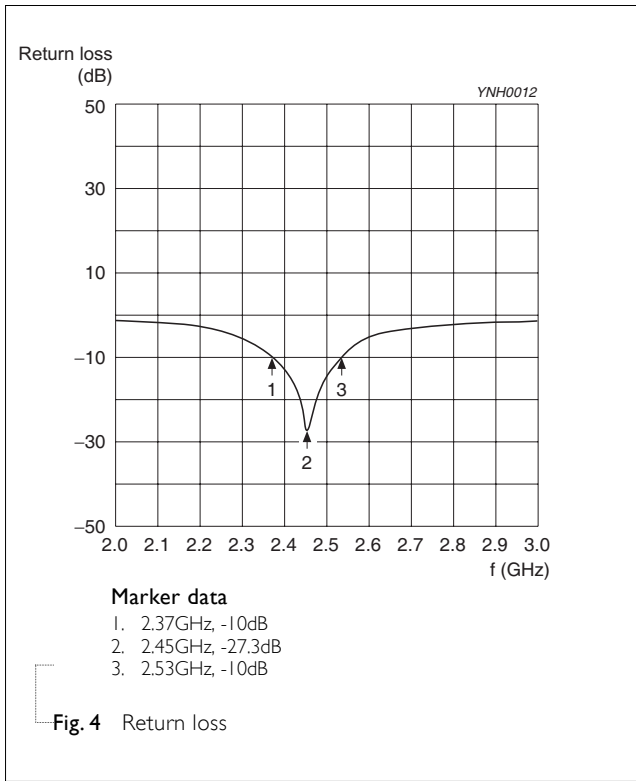


Fig. 3 Details of soldering Pad

Unit : mm

YNH0011

ELECTRICAL PERFORMANCES



REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|---|
| Version 0 | Mar. 27, 2013 | - | - New datasheet for Ceramic Chip Antenna, 2.4-2.5 GHz application, size 3216 series |