

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna
ANT5320LL45R2400A

2.4 – 2.5 GHz
5320 Series



YAGEO
Phicomp

Product Specification –March 27, 2013 v.0



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 5320 L L45 R 2400A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

5320 = 5.3 x 2 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L45

(5) PACKING TYPE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

PHYCOMP CTC

CAN4311753452451K

I2NC

431175345245

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-------------------------------|---|
| Centre Frequency | 2.45 GHz |
| Bandwidth | 240 MHz (Typ.) |
| Return Loss | 10 dB min |
| Polarization | Linear |
| Azimuth Beamwidth | Omni-directional |
| Peak Gain | 5.22 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

I. The specification is defined on Yageo evaluation board

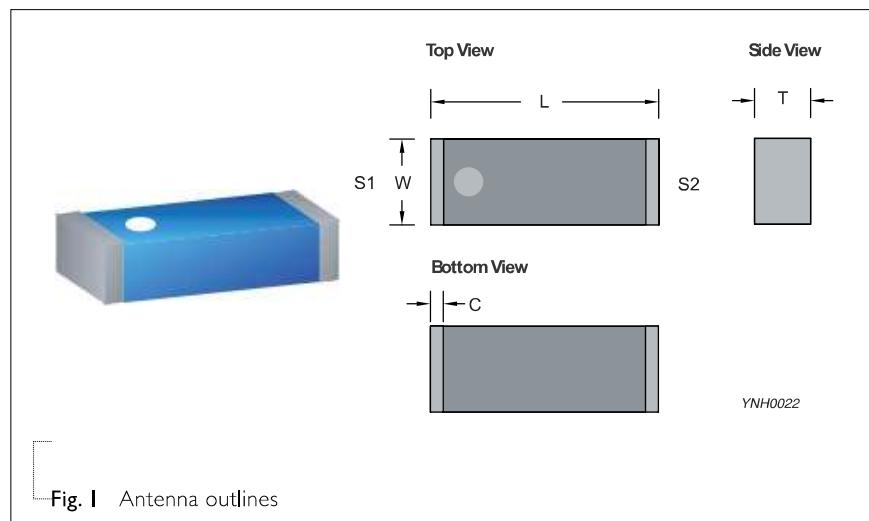
DIMENSIONS

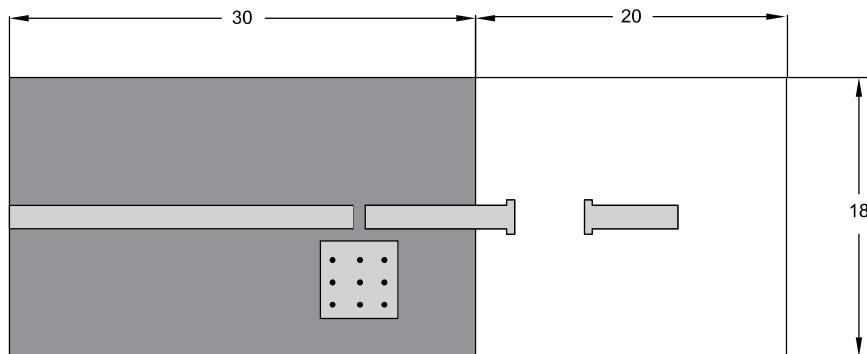
Table 2 Machinical Dimension

| DIMENSION | |
|-----------|------------|
| L (mm) | 5.30 ±0.20 |
| W (mm) | 2.00 ±0.20 |
| T (mm) | 1.30 ±0.20 |
| C (mm) | 0.30 ±0.20 |

Table 3 Termination configuration

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

OUTLINES

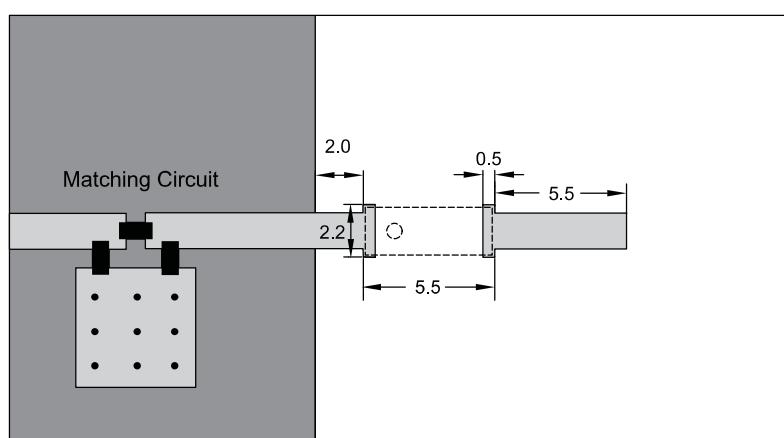
REFERENCE DESIGN OF EVALUATION BOARD

Unit : mm

Fig. 2 Outlook and dimension of evaluation board

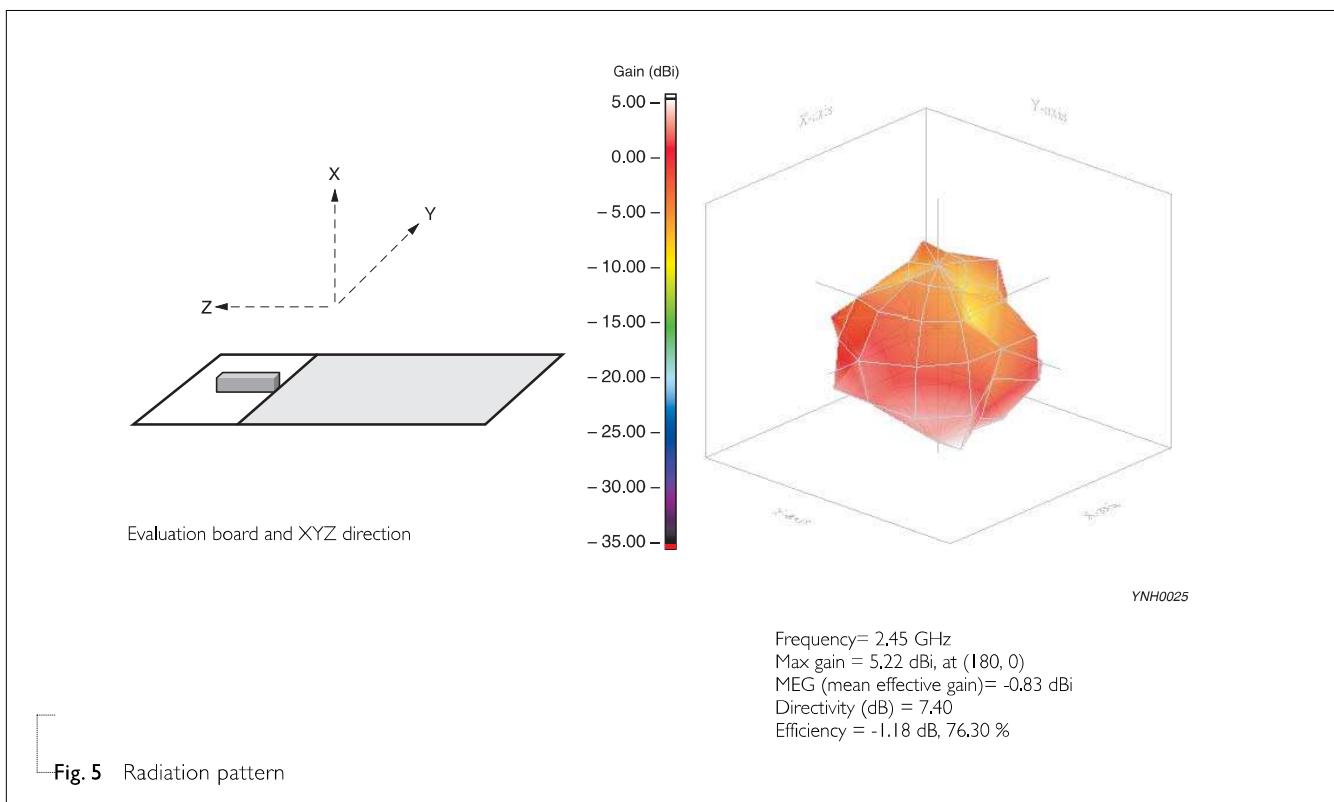
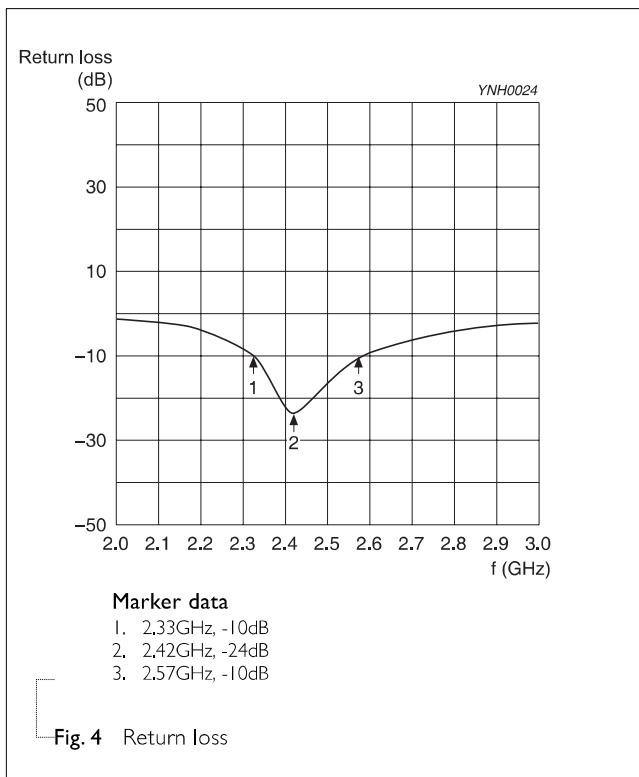
Top Layer
Bottom Layer / GND

Unit : mm



YNH0023

Fig. 3 Details of soldering Pad

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, 5320 Series |



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