

# DATA SHEET

## WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT5320LL04R2455A

2.4 AND 5GHZ

5320 Series



**FEATURES**

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

**APPLICATIONS**

- 2.4&5GHz WiFi 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 L04 R 2455A**  
(1) (2) (3) (4) (5) (6)

**(1) PRODUCT**

ANT = Antenna

**(2) SIZE**

5320 = 5.3 × 2.0

**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

**(4) SERIAL NO.**

L04

**(5)PACKING STYLE**

R = Tape and Reel

**(6) WORKING FREQUENCY**

2455 = 2.4/5GHz

**PHYCOMP CTC**

CAN4311753042522K

**I2NC**

431175304252

## SPECIFICATION

Table 1

| DESCRIPTION                   | VALUE                                       |
|-------------------------------|---------------------------------------------|
| Centre Frequency              | 2.45 G / 5.5 G Hz                           |
| Bandwidth                     | 150M / 900M Hz ( Typ. )                     |
| Return Loss                   | 6.5 dB min                                  |
| Polarization                  | Linear                                      |
| Azimuth Beamwidth             | Omni-directional                            |
| Peak Gain                     | 2.09 / 4.32 dBi ( Typ. )                    |
| Impedance                     | 50 ohm                                      |
| 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

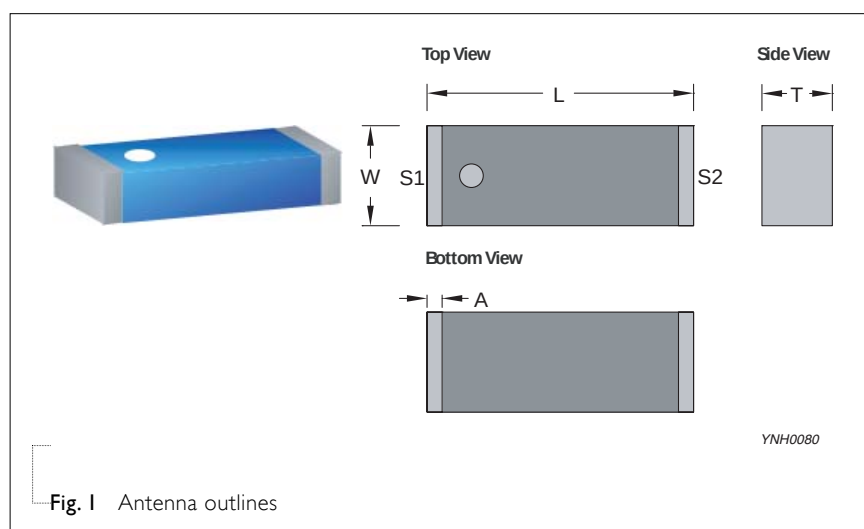
Table 2 Machinical Dimension

|        | DIMENSION   |
|--------|-------------|
| L (mm) | 5.30 ± 0.20 |
| W (mm) | 2.00 ± 0.20 |
| T (mm) | 1.40 ± 0.30 |
| A (mm) | 0.40 ± 0.20 |

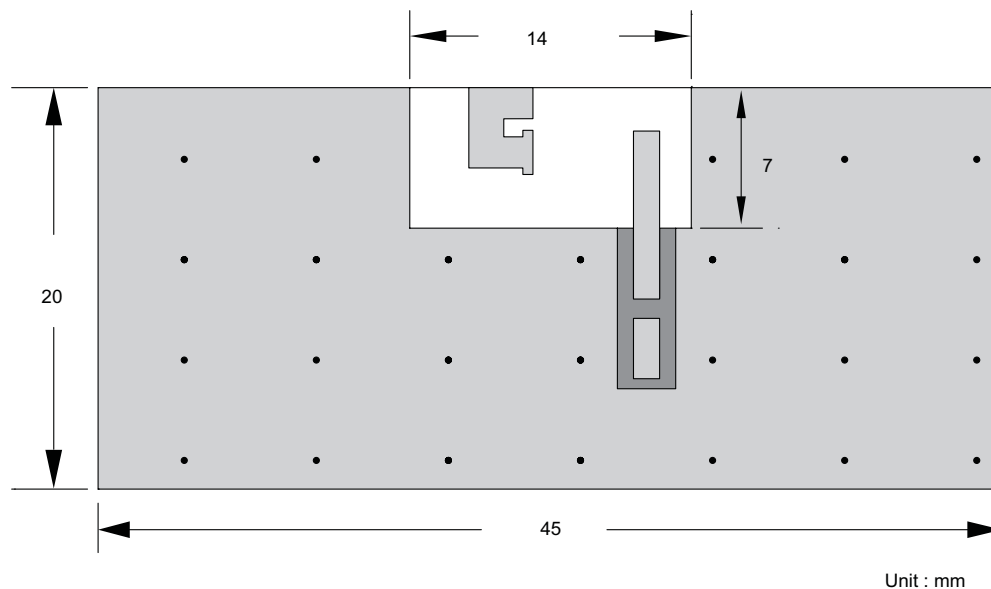
Table 3 Termination configuration

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

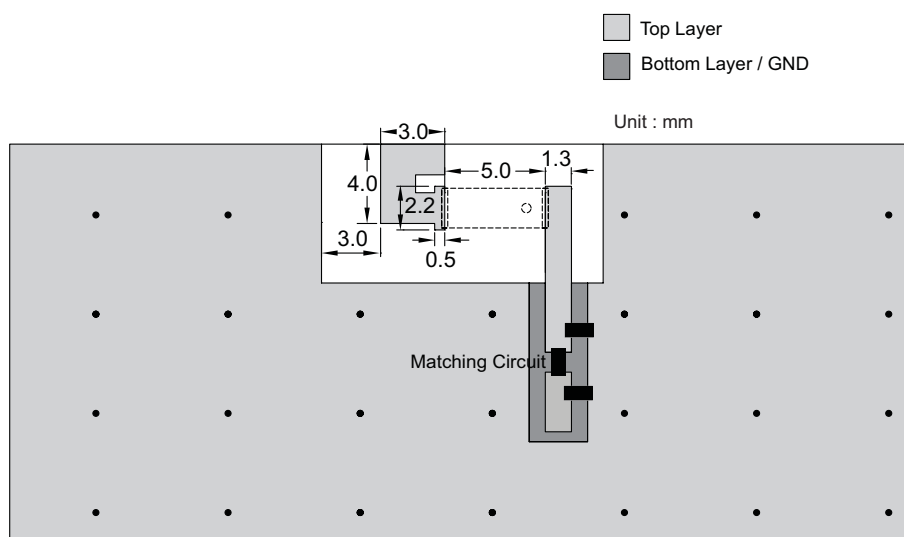
## OUTLINES



# REFERENCE DESIGN OF EVALUATION BOARD



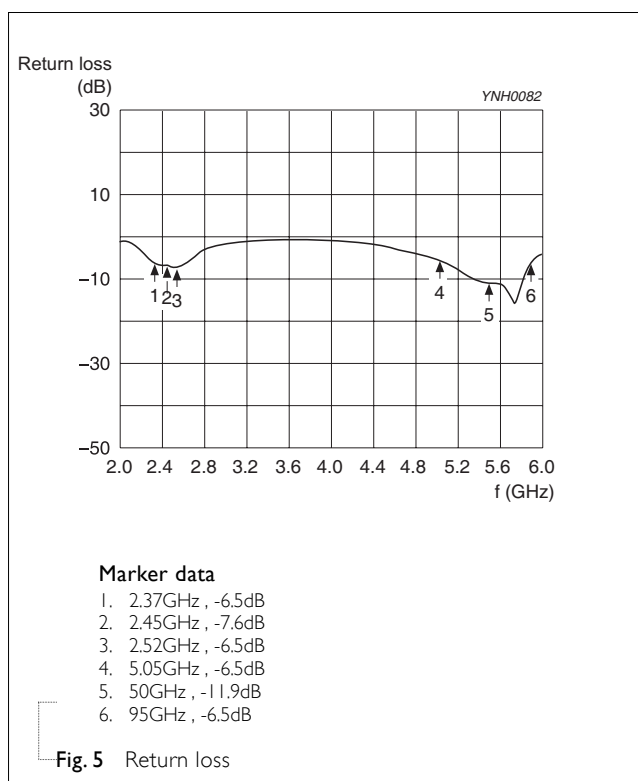
**Fig. 3** Outlook and dimension of evaluation board

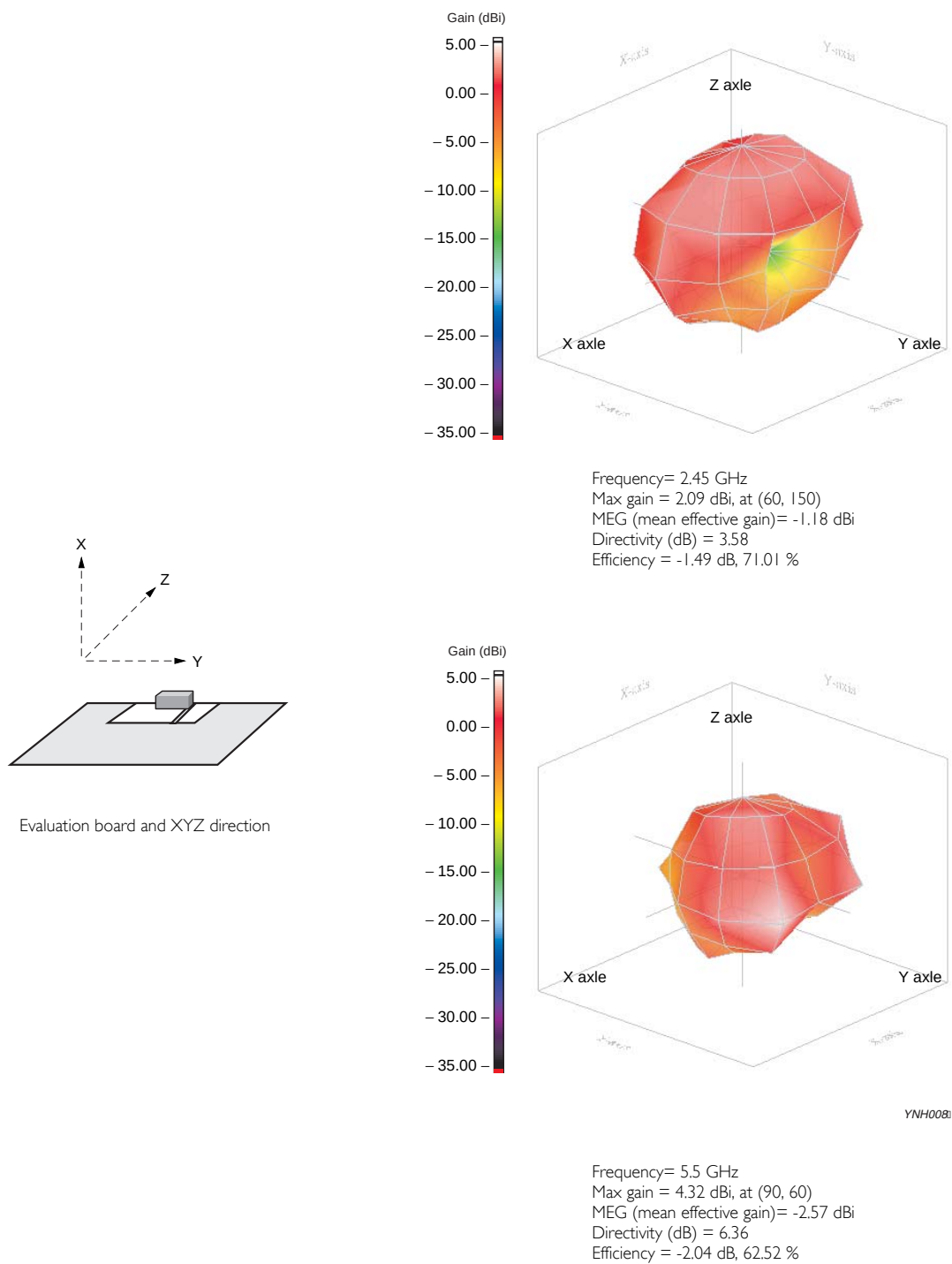


**Fig. 4** Details of soldering Pad

YNH0081

## ELECTRICAL PERFORMANCES



**Fig. 6** Radiation pattern

REVISION HISTORY

| REVISION  | DATE          | CHANGE NOTIFICATION | DESCRIPTION                                                              |
|-----------|---------------|---------------------|--------------------------------------------------------------------------|
| Version 0 | Jan. 24, 2013 | -                   | - New datasheet for SMD type antenna, 2.4/5 GHz application, 5320 series |