

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

OUTLINES

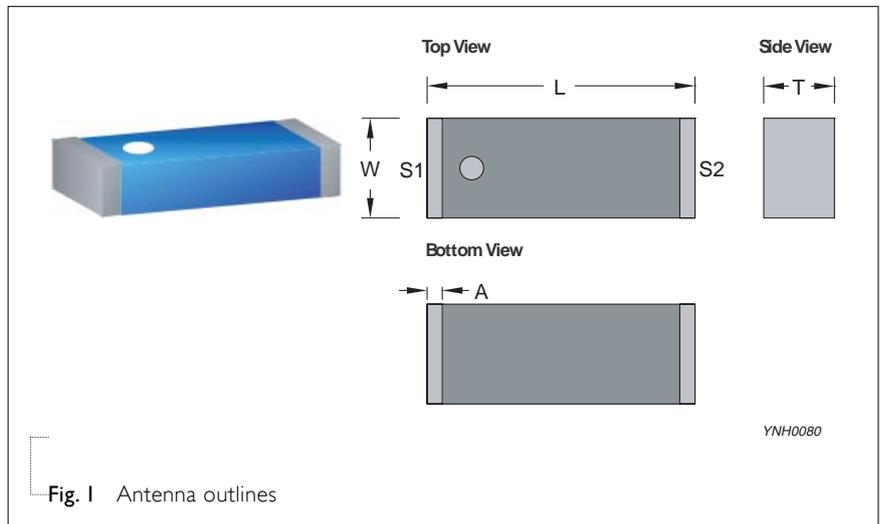


Fig. 1 Antenna outlines

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Soldering Point

REFERENCE DESIGN OF EVALUATION BOARD

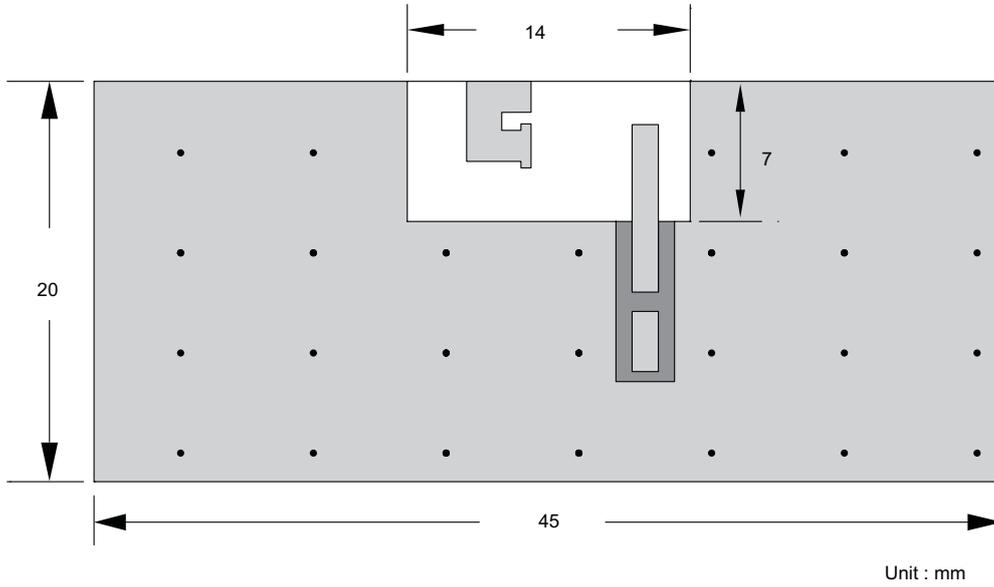


Fig. 3 Outlook and dimension of evaluation board

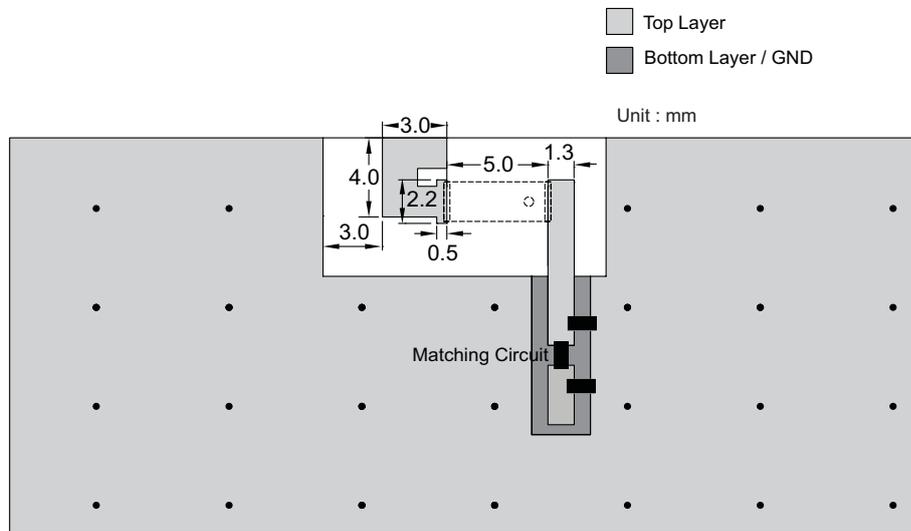
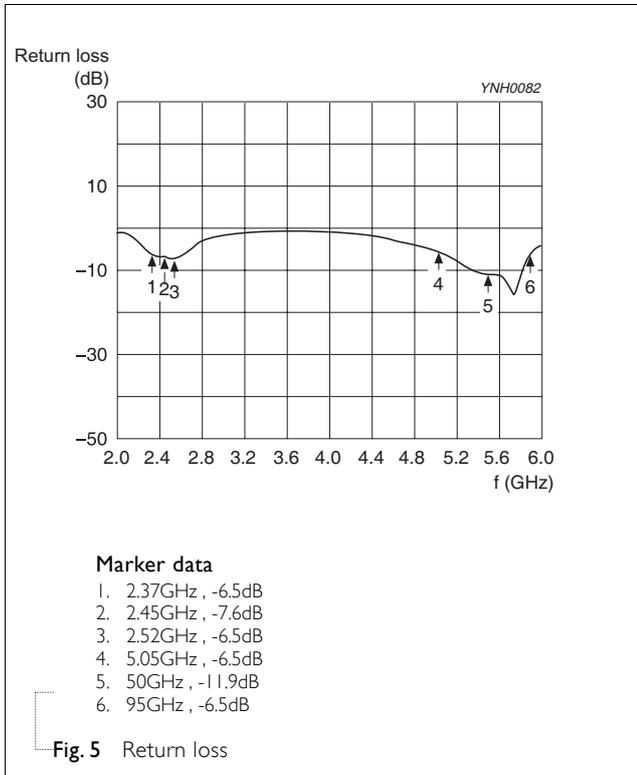
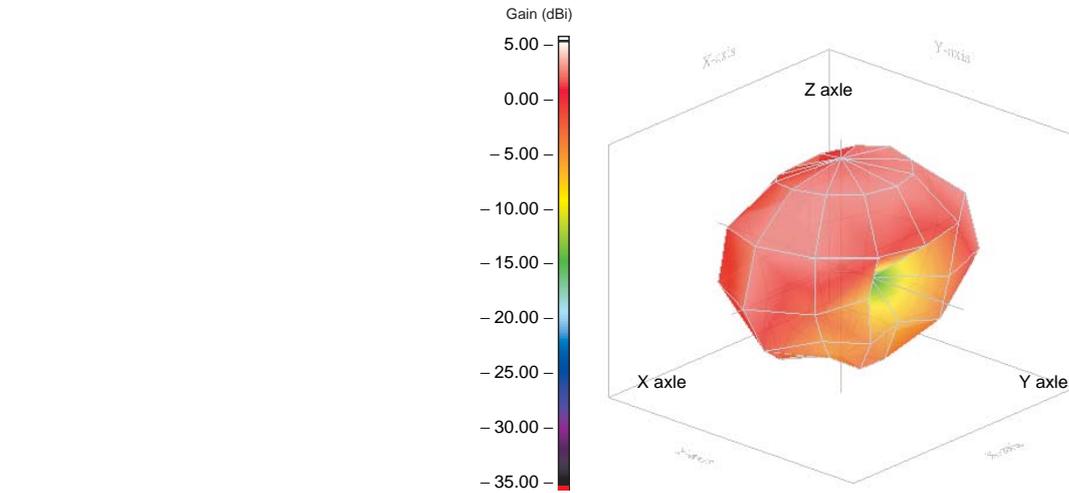


Fig. 4 Details of soldering Pad

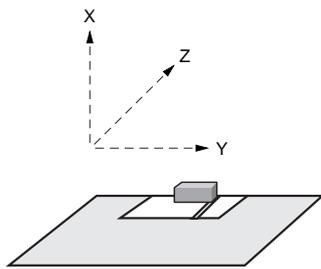
YNH0081

ELECTRICAL PERFORMANCES

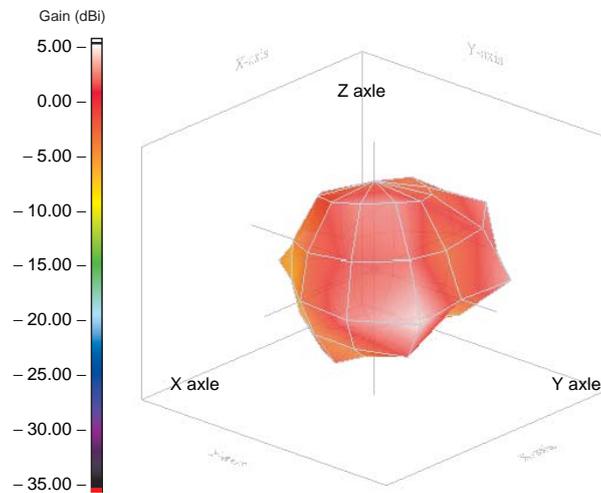




Frequency= 2.45 GHz
 Max gain = 2.09 dBi, at (60, 150)
 MEG (mean effective gain)= -1.18 dBi
 Directivity (dB) = 3.58
 Efficiency = -1.49 dB, 71.01 %



Evaluation board and XYZ direction



Frequency= 5.5 GHz
 Max gain = 4.32 dBi, at (90, 60)
 MEG (mean effective gain)= -2.57 dBi
 Directivity (dB) = 6.36
 Efficiency = -2.04 dB, 62.52 %

YNH008

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

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com