



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT5320IL04R2455A

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 =  $5.3 \times 2.0$

**(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 Machinal Dimension

	DIMENSION
L (mm)	$5.30 \pm 0.20$
W (mm)	$2.00 \pm 0.20$
T (mm)	$1.40 \pm 0.30$
A (mm)	$0.40 \pm 0.20$

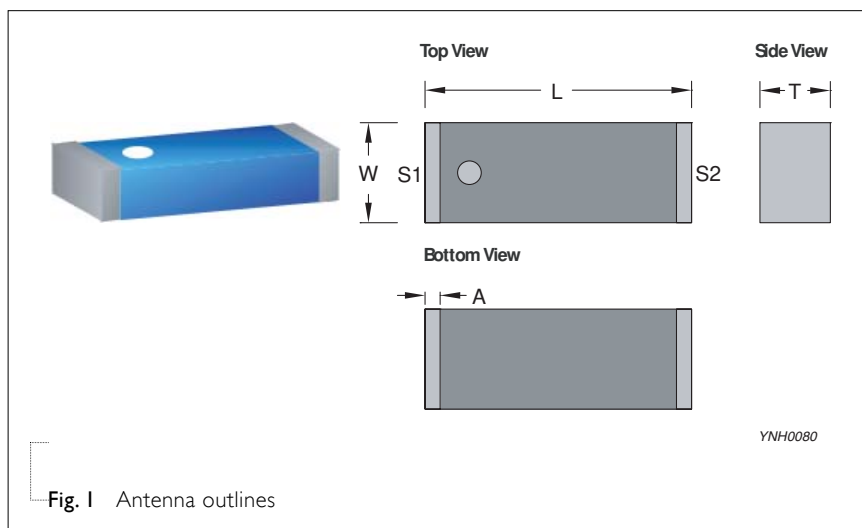
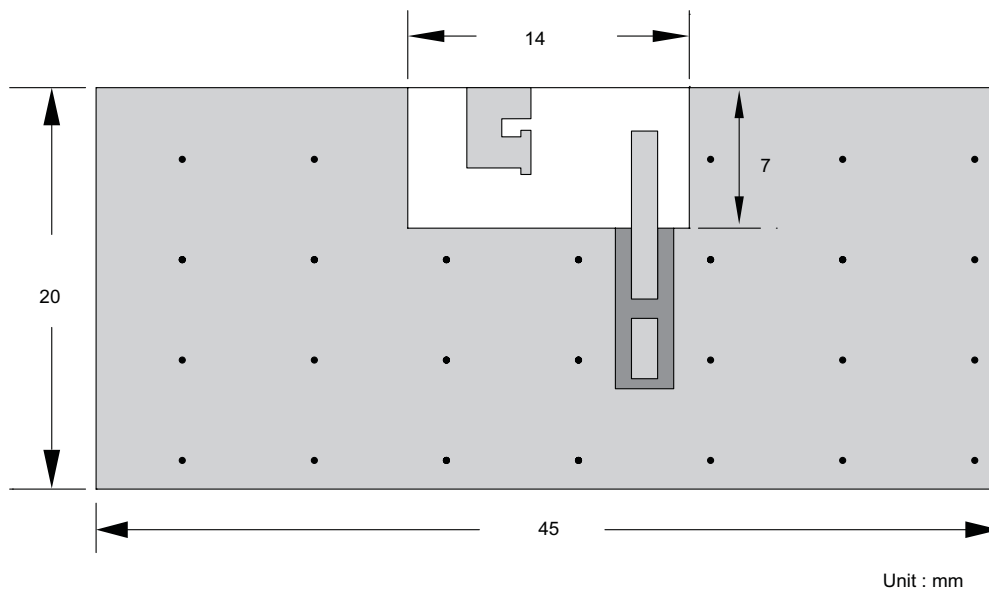
**OUTLINES**

Table 3 Termination configuration

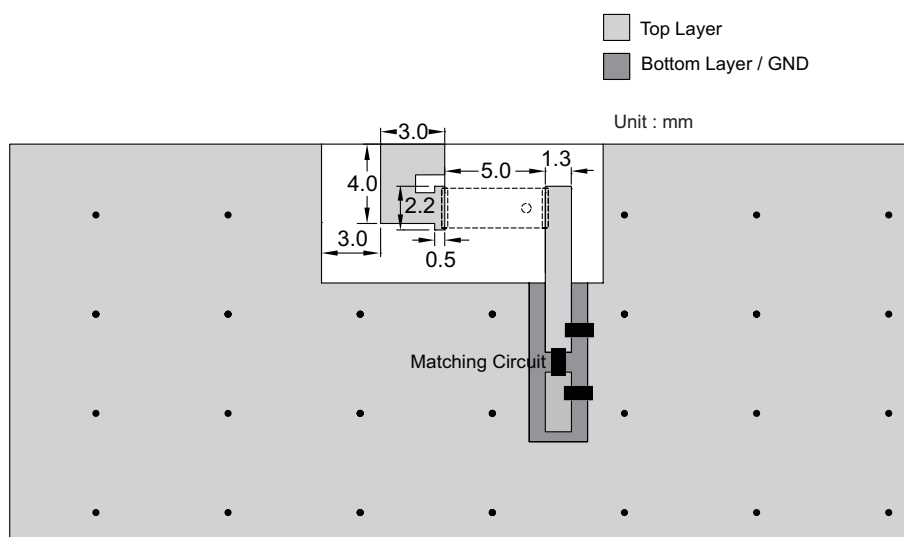
TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Soldering Point



# REFERENCE DESIGN OF EVALUATION BOARD

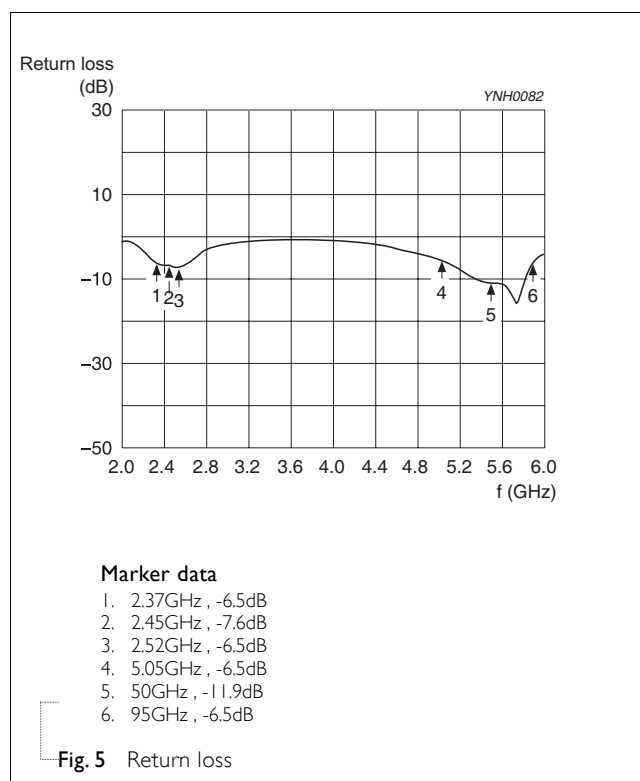


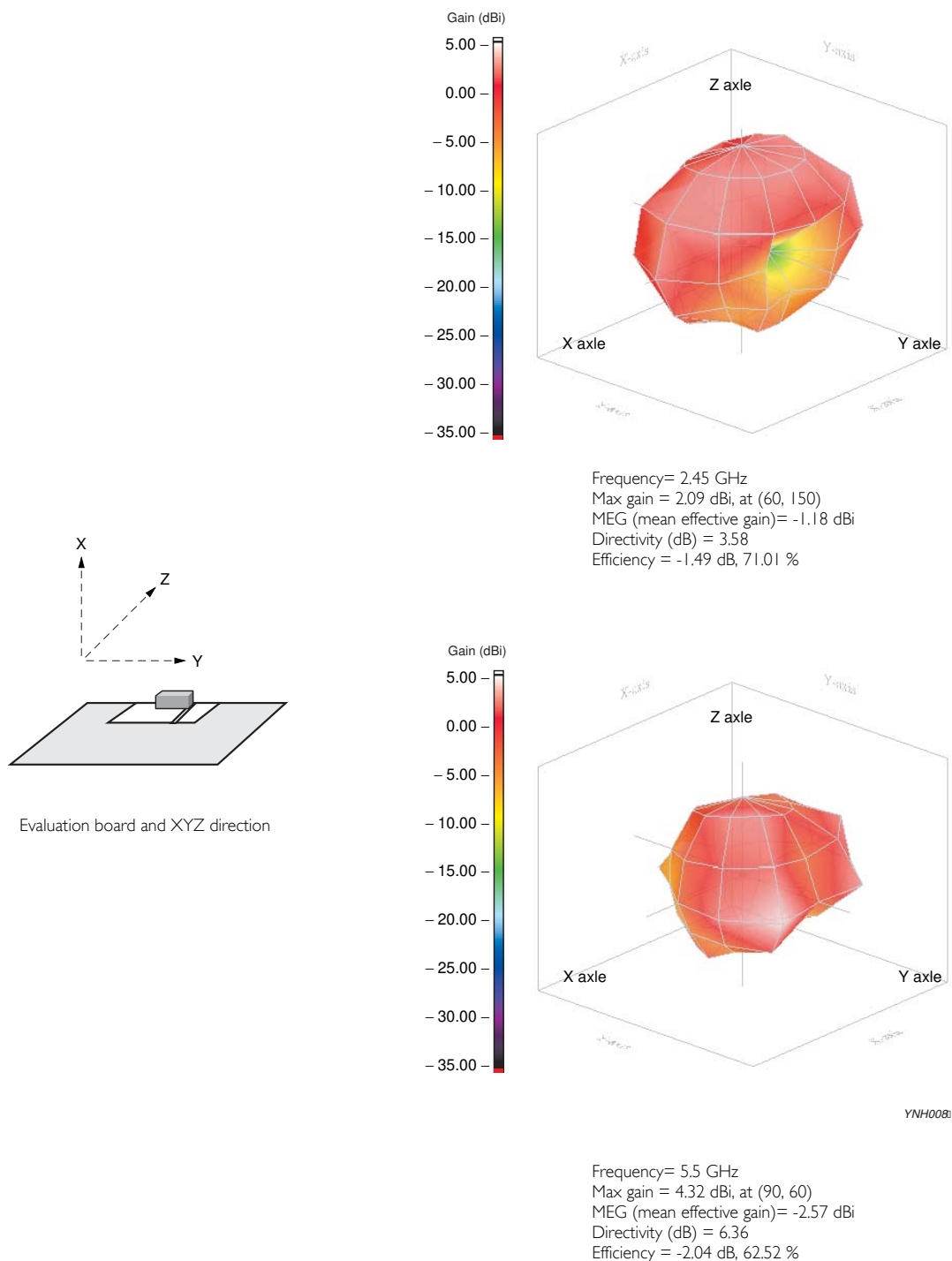
**Fig. 3** Outlook and dimension of evaluation board



**Fig. 4** Details of soldering Pad

YNH0081

ELECTRICAL PERFORMANCES


**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