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Contact us

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

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT5320IL24R2455A

2.4 AND 5 GHZ

5320 Series



FEATURES

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

APPLICATIONS

- 2.4 & 5 GHz 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 L24 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.

L24

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2455 = 2.45/ 5 GHz

PHYCOMP CTC

CAN431175324252K

I2NC

431175324252

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Centre Frequency	2.45/ 5 GHz
Bandwidth	120M / 900 MHz (min)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.17 / 3.51 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	-40~105 degree
Maximum Power	1 W
Termination	Ag (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)	5.30 ± 0.10
W (mm)	2.00 ± 0.10
T (mm)	1.15 ± 0.10
A (mm)	0.80 ± 0.10
B (mm)	0.80 ± 0.10
C (mm)	0.50 ± 0.10
D (mm)	2.40 ± 0.10

OUTLINES

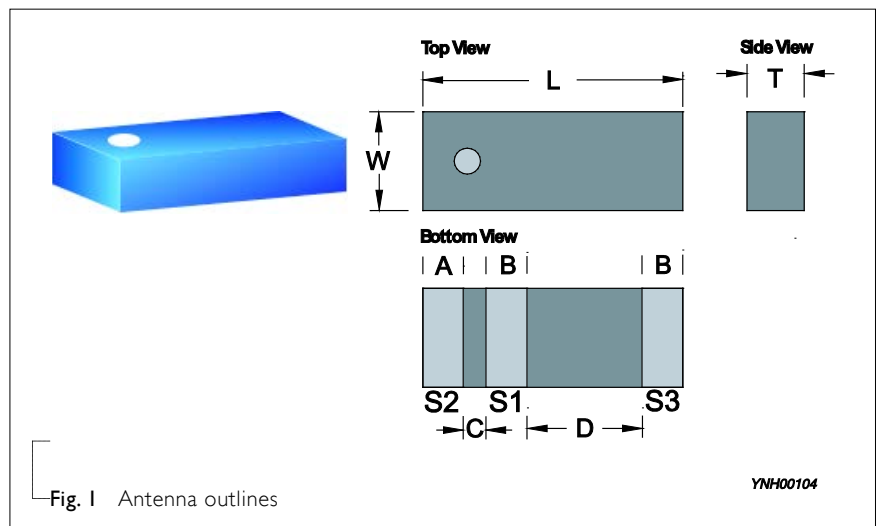


Table 3 Termination configuration

TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Soldering Point
S3	GND

REFERENCE DESIGN OF EVALUATION BOARD

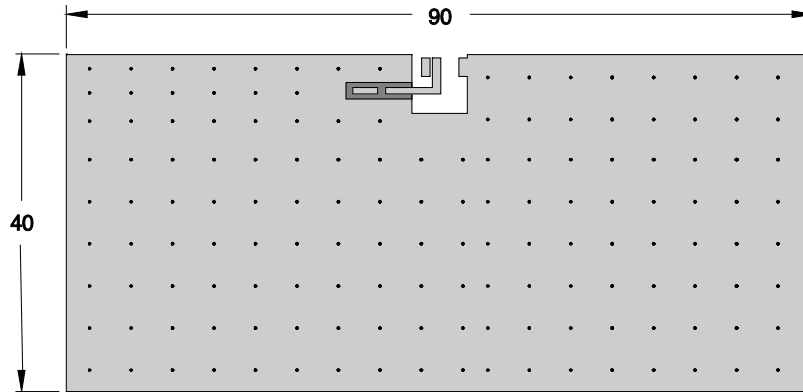
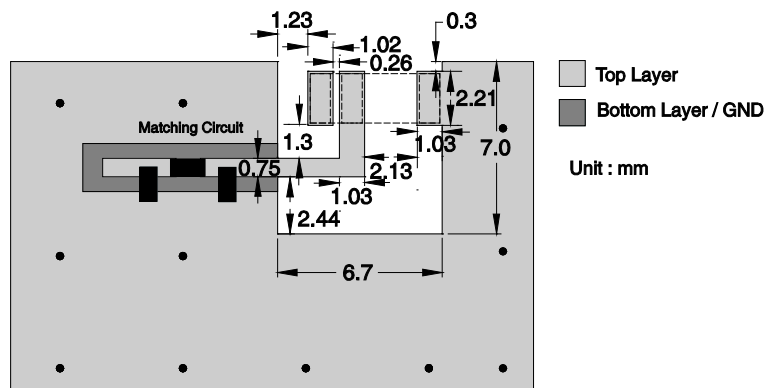
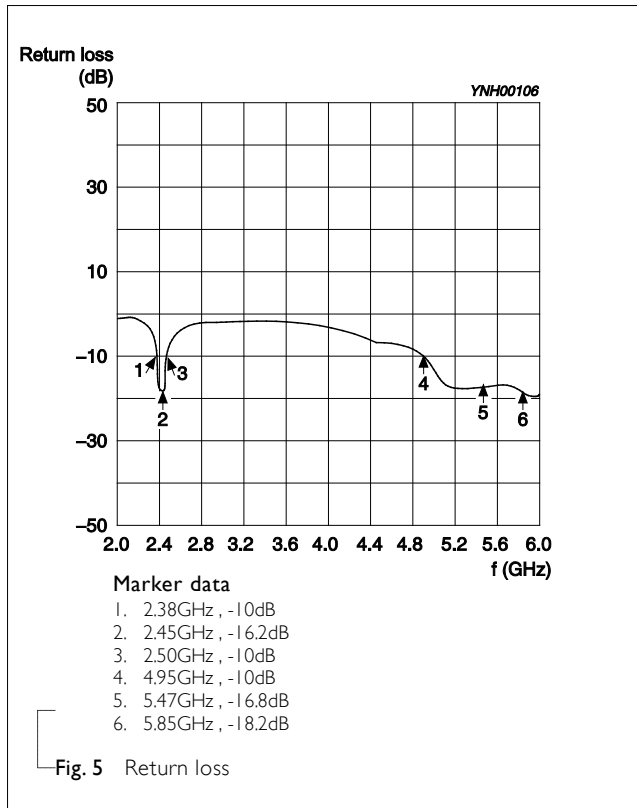


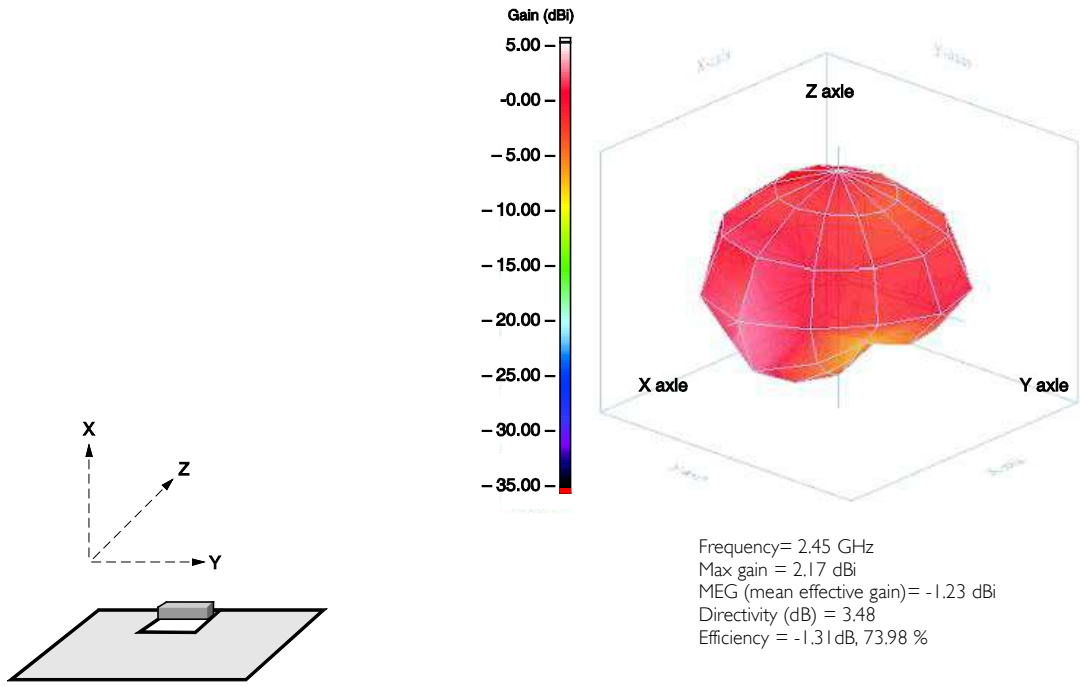
Fig. 3 Outlook and dimension of evaluation board



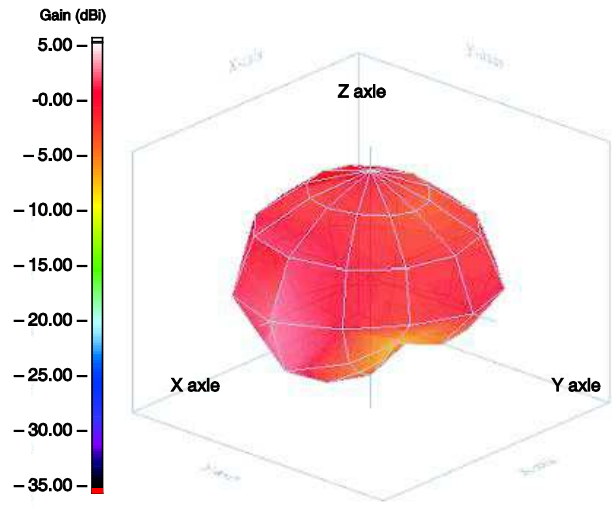
YNH00105

Fig. 4 Details of soldering pad

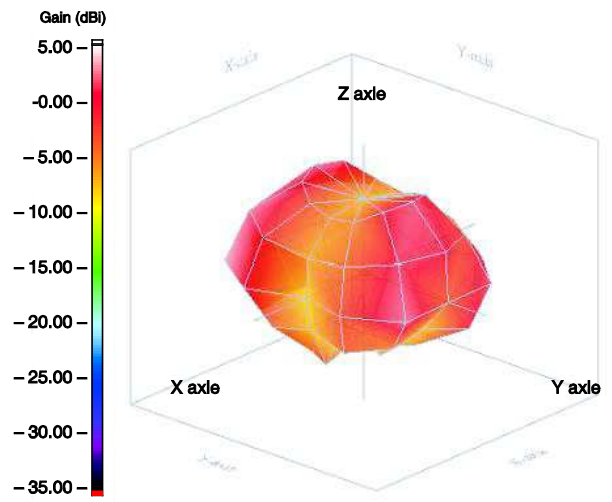
ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Frequency= 2.45 GHz
 Max gain = 2.17 dBi
 MEG (mean effective gain)= -1.23 dBi
 Directivity (dB) = 3.48
 Efficiency = -1.31dB, 73.98 %



Frequency= 5.47 GHz
 Max gain = 3.51 dBi
 MEG (mean effective gain)= -2.68 dBi
 Directivity (dB) = 4.95
 Efficiency = -1.44dB, 71.82 %

YNH00107

Fig. 6 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Jan. 30, 2013	-	- New data sheet for SMD type antenna, 2.4 / 5GHz application, 5320 series PIFA mode