

# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT5320LL24R2400A

2.4 - 2.5 GHz

5320 Series



**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 L24 R 2400A**  
(1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

5320 = 5.3 × 2.0 mm

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**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

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**(4) SERIAL NO.**

L24

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**(5) PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

2400 = 2.4 GHz

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**PHYCOMP CTC**

CAN4311753242452K

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**I2NC**

431175324245

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**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Centre Frequency	2.45 GHz
Bandwidth	84 MHz (Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.78 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

**NOTE**

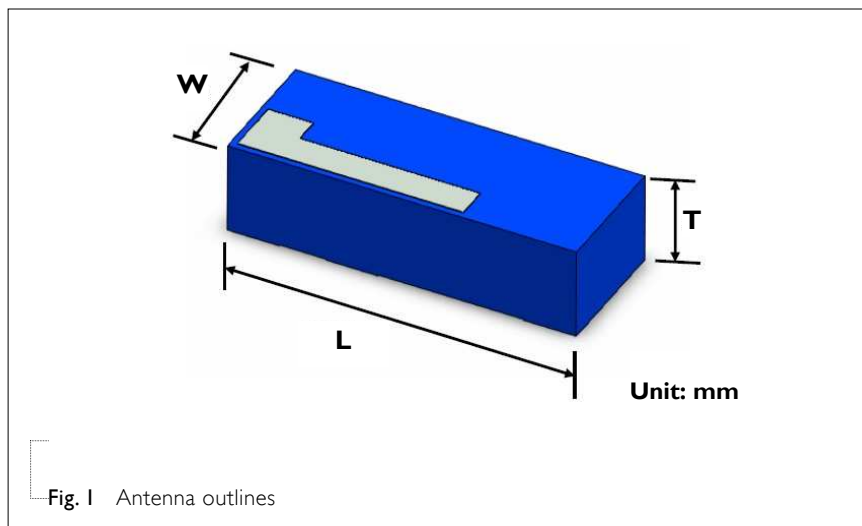
1. The specification is defined on Yageo evaluation board

**DIMENSIONS**

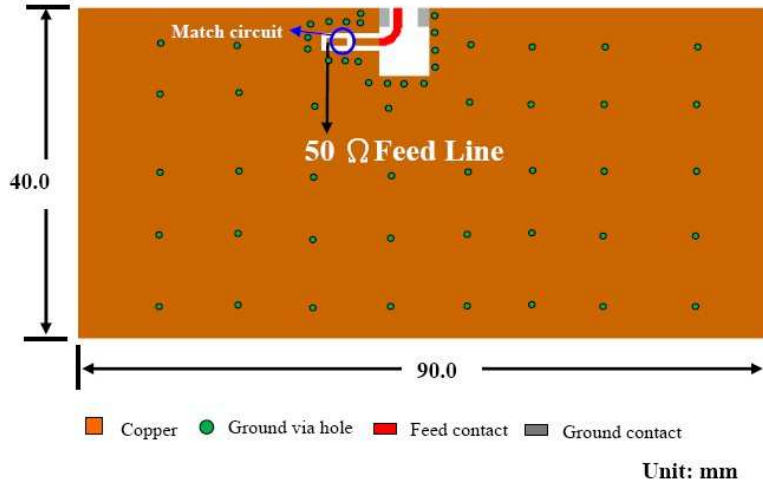
Table 2 Machinical Dimension

	DIMENSION
L (mm)	5.30 ±0.10
W (mm)	2.00 ±0.10
T (mm)	1.20 ±0.10

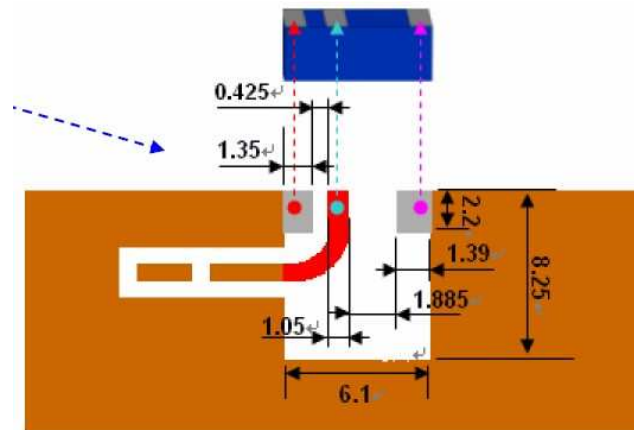
**OUTLINES**



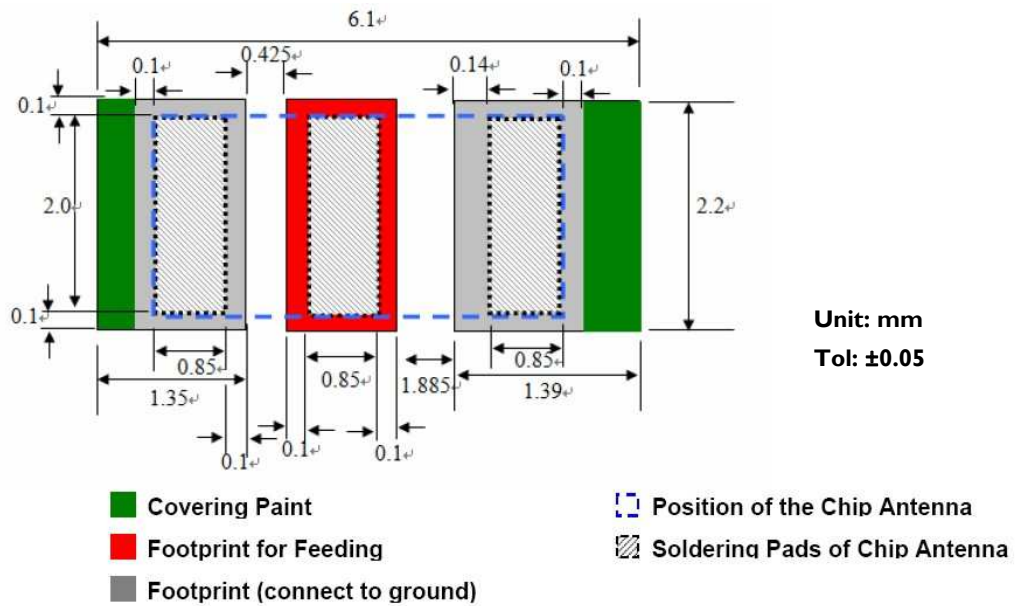
**REFERENCE DESIGN OF EVALUATION BOARD**



**Fig. 2** Outlook and dimension of evaluation board



**Fig. 3** Dimension of footprint

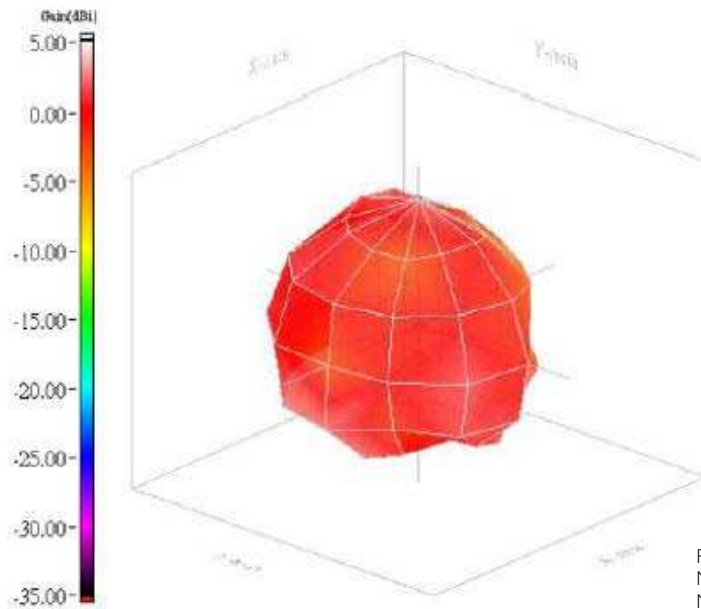


**Fig. 4** Details of soldering pad

**ELECTRICAL PERFORMANCES**



Fig. 5 Return loss



Frequency= 2.45 GHz  
Max gain = 2.78dBi, at (150,150)  
MEG (mean effective gain)= -0.76 dBi  
Directivity (dB) = 3.61  
Efficiency = -0.83dB, 82.66 %

Fig. 6 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Jan. 23, 2013	-	- New data sheet for SMD type antenna, 2.45GHz application, 5320 series.