

DATA SHEET

WIRELESS COMPONENTS Ceramic Chip Antenna ANT1005LL14R2400A

2.4 - 2.5GHz 1005 Series



Product Specification – February 14, 2017 V. 0

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YAGEÓ Phicomp WIRELESS COMPONENTS

Ceramic Chip Antenna

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FEATURES

- Compact size
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- 2.4GHz 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 1005 L L14 R 2400A (1) (2) (3) (4) (5) (6)

(I) PRODUCT

ANT = Antenna

(2) SIZE

1005 = 1.0 × 0.5 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

LI4

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz



WIRELESS COMPONENTS

Ceramic Chip Antenna

Table I		
DESCRIPTION	VALUE	
Working Frequency	2.4 ~ 2.484 GHz	
Bandwidth	I 20 MHz(Typ.)	
VSWR	3.0 Max	
Polarization	Linear	
Azimuth Beamwidth	Omni-directional	
Peak Gain	2.21 dBi(Typ.)	
Impedance	50 Ω	
Operating Temperature	- 40~105 ° C	
Maximum Power	IW	
Termination	Ag (Environmentally-Friendly Leadless)	
Resistance to Soldering Heats	260° C , 5sec.	

NOTE

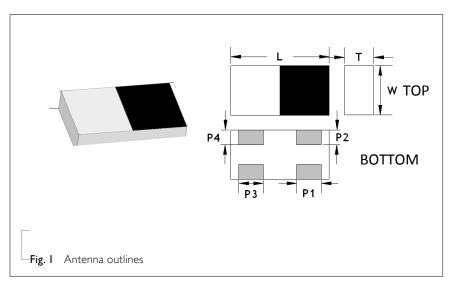
I. The specification is defined on Yageo evaluation board

DIMENSIONS

Table 2	Mechanical Dimension
·	DIMENSION
L (mm)	1.0 ±0.10
W (mm)	0.5 ±0.10
T (mm)	0.37(max)
PI (mm)	0.25 +0.1/-0.05
P2 (mm)	0.15 +0.1/-0.05
P3 (mm)	0.25 +0.1/-0.05
P4 (mm)	0.15 +0.1/-0.05

Table 3 Termination configuration		
TERMINAL NAME	FUNCTION	
PI	Ground Point	
P2	Ground Point	
P3	Feeding Point	
P4	Feeding Point	

OUTLINES

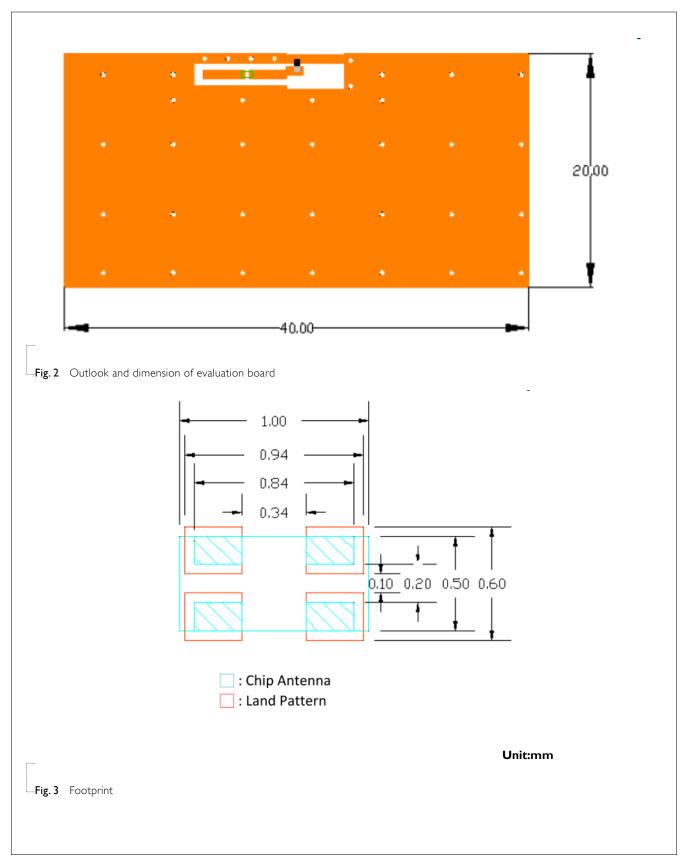




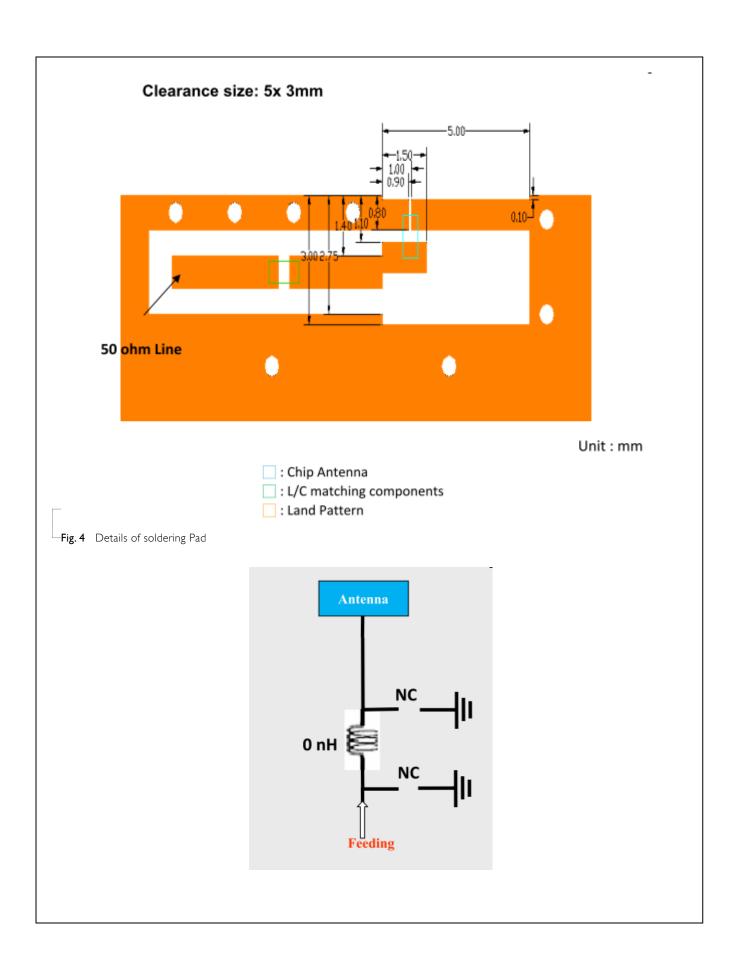
WIRELESS COMPONENTS Ceramic Chip Antenna

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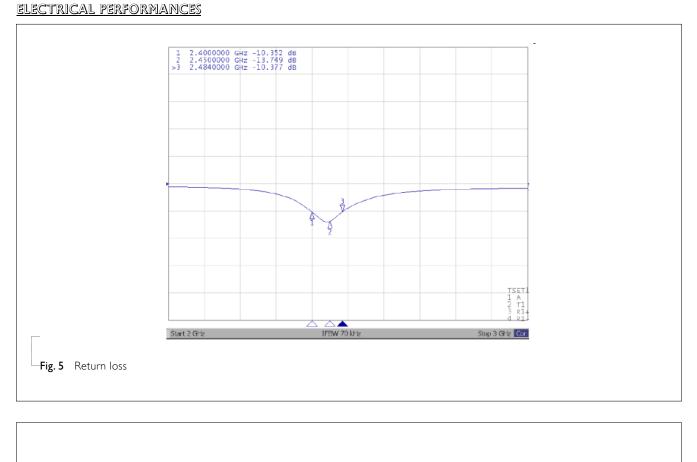
REFERENCE DESIGN OF EVALUATION BOARD

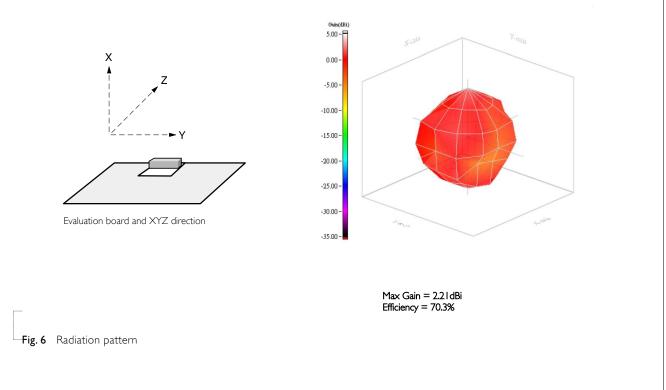


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<u>REVISION HISTORY</u>

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 14, 2017	-	- New data sheet for SMD type antenna, 2.45GHz application, 1005 series PIFA mode



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