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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!



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DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT1005LL14R2400A

2.4 - 2.5GHz

I005 Series



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 I005 L L14 R 2400A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

I005 = 1.0 × 0.5 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L14

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Working Frequency	2.4 ~ 2.484 GHz
Bandwidth	120 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	1 W
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 \pm 0.10
W (mm)	0.5 \pm 0.10
T (mm)	0.37(max)
P1 (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

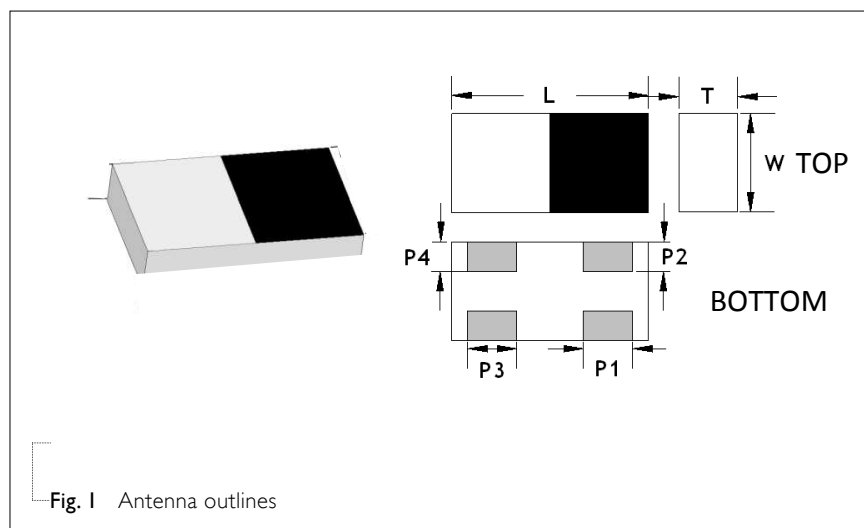
OUTLINES

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
P1	Ground Point
P2	Ground Point
P3	Feeding Point
P4	Feeding Point

REFERENCE DESIGN OF EVALUATION BOARD

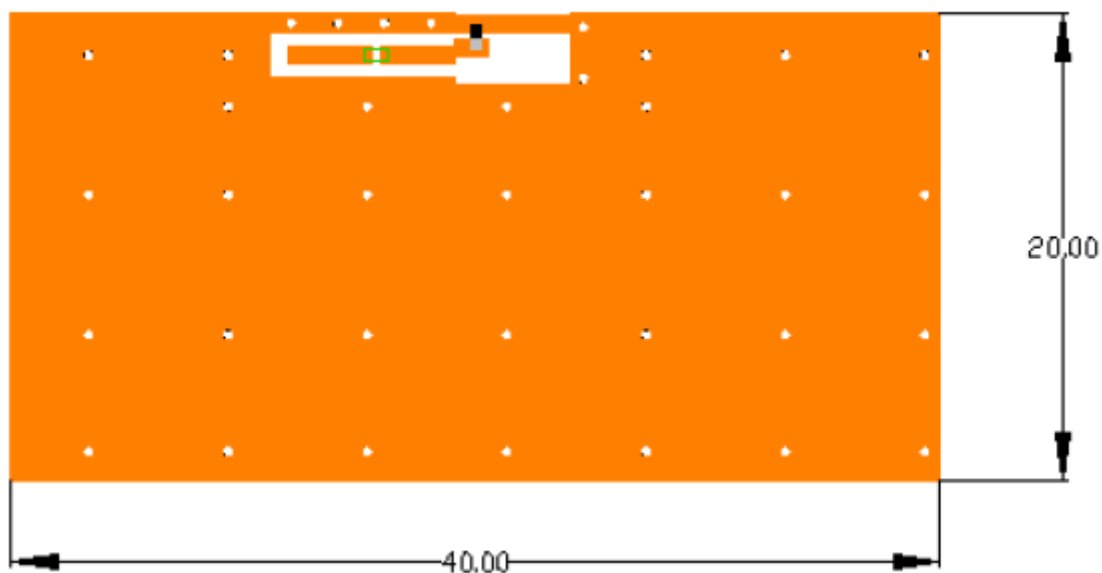
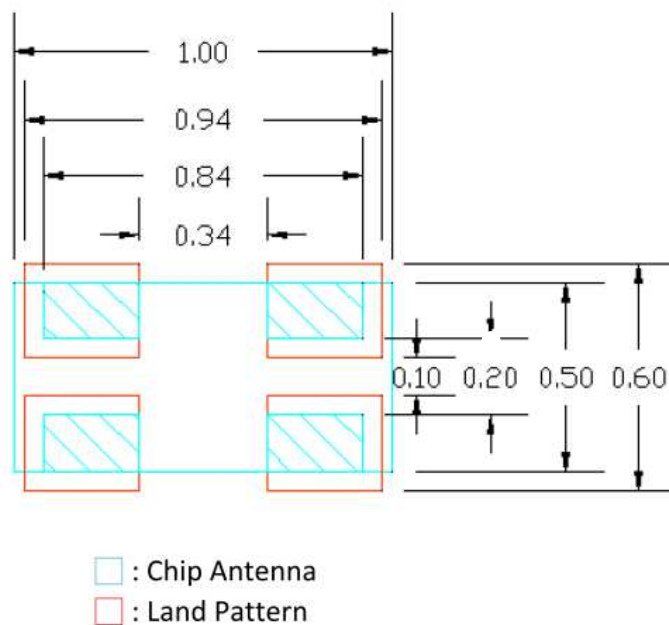


Fig. 2 Outlook and dimension of evaluation board



Unit:mm

Fig. 3 Footprint

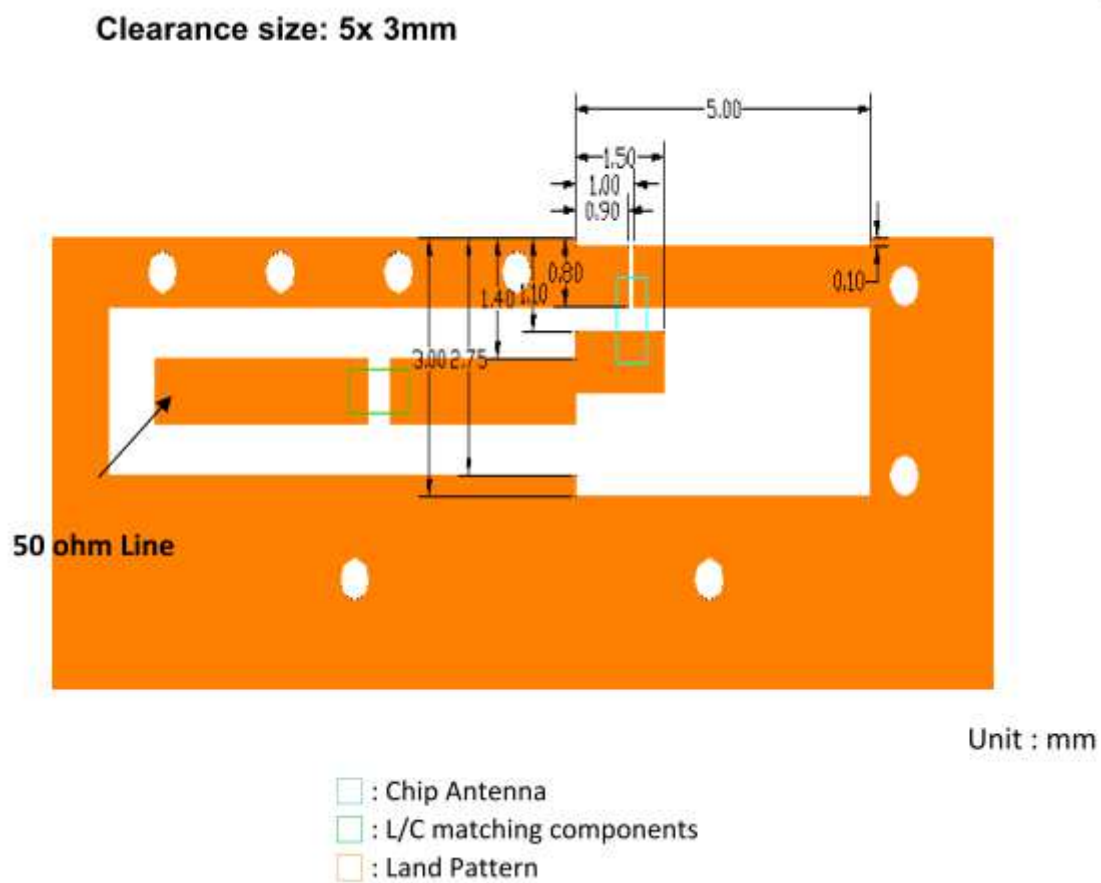
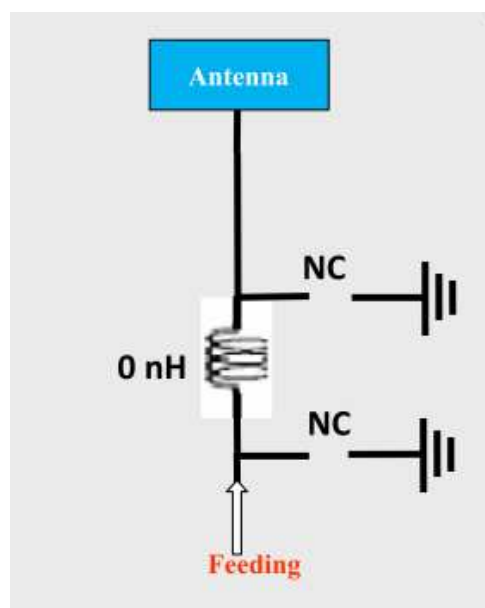


Fig. 4 Details of soldering Pad



ELECTRICAL PERFORMANCES

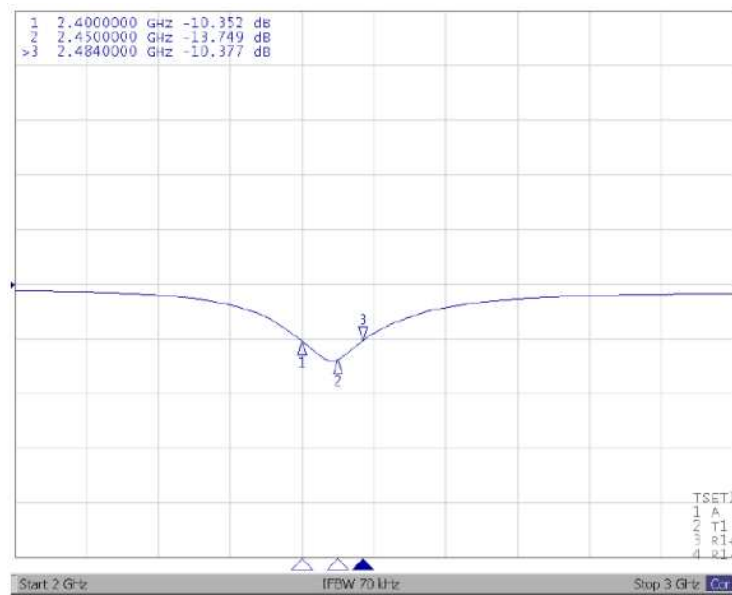


Fig. 5 Return loss

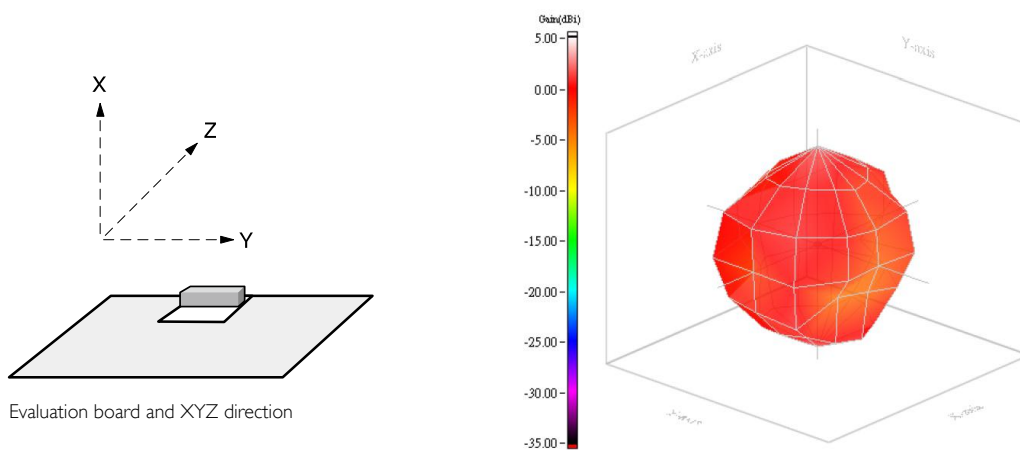


Fig. 6 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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Version 0	Feb. 14, 2017	-	- New data sheet for SMD type antenna, 2.45GHz application, I005 series PIFA mode
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