

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

(1) PRODUCT

ANT = Antenna

(2) SIZE

1005 = 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

1. 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)
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

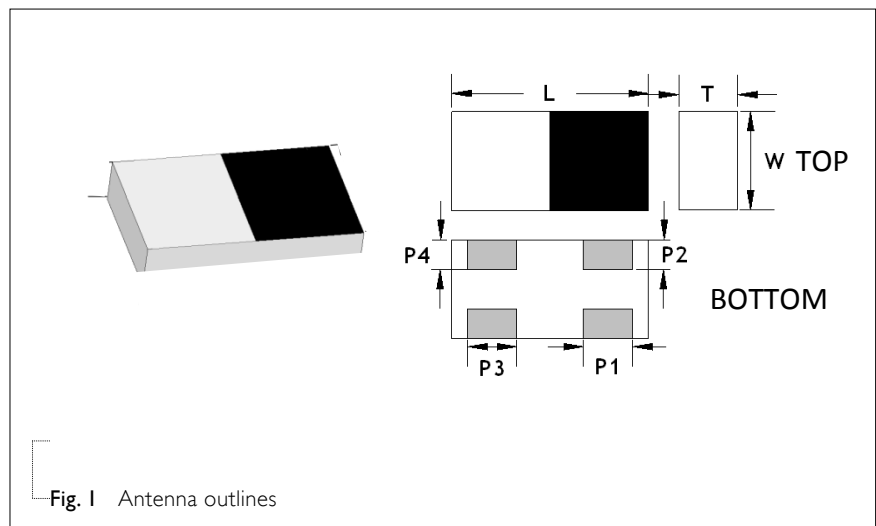


Table 3 Termination configuration

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

REFERENCE DESIGN OF EVALUATION BOARD

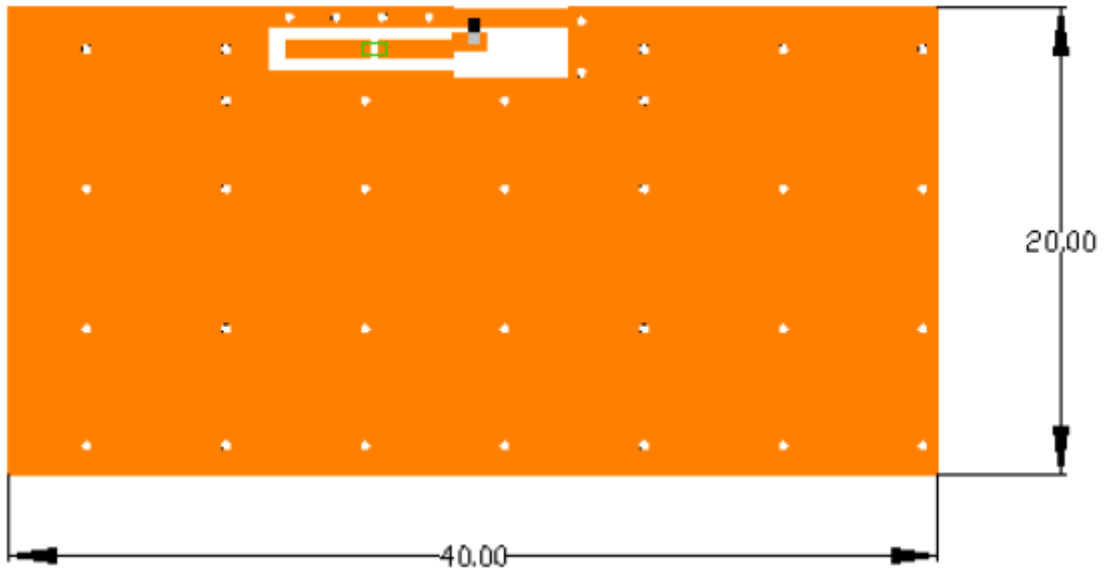
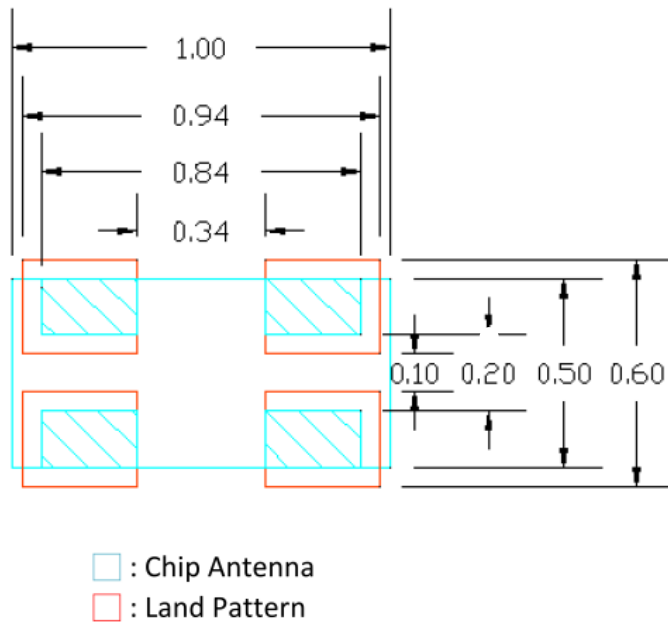


Fig. 2 Outlook and dimension of evaluation board



Unit:mm

Fig. 3 Footprint

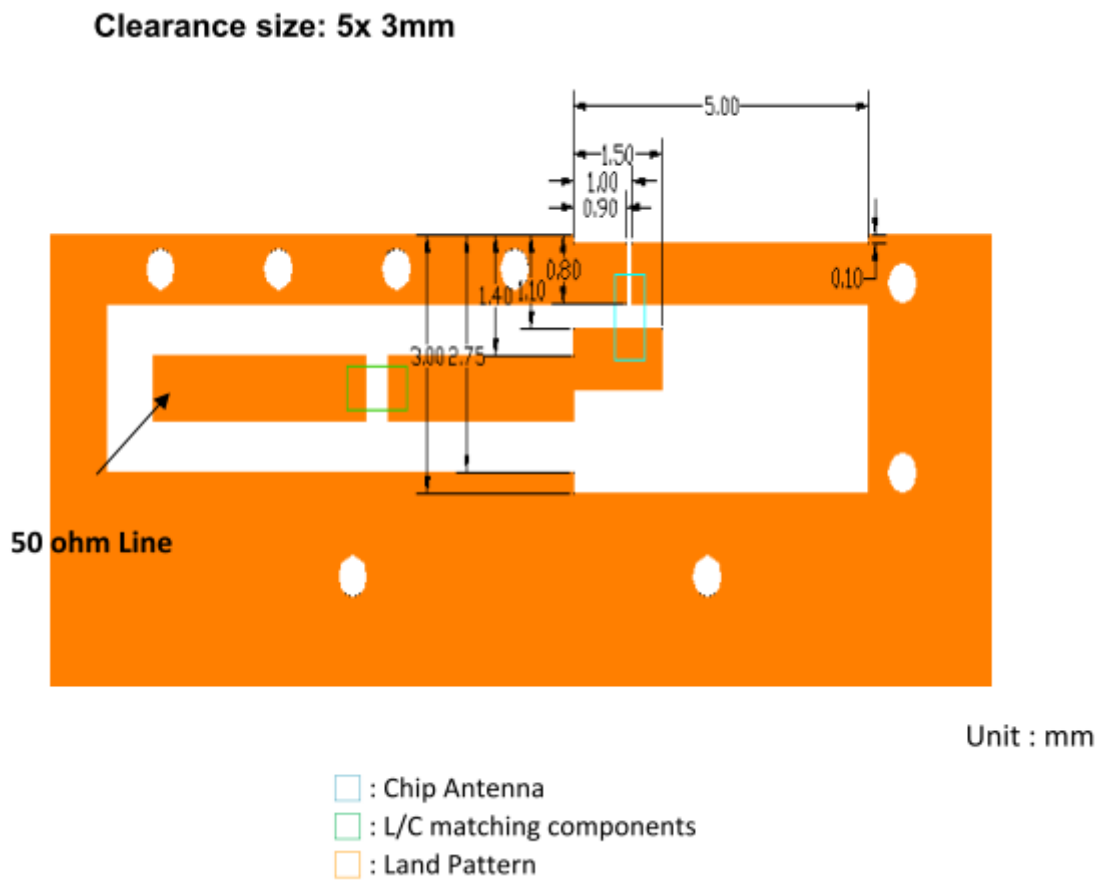
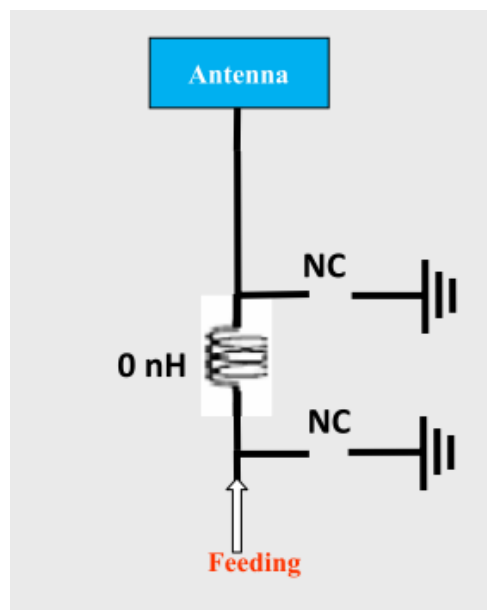


Fig. 4 Details of soldering Pad



ELECTRICAL PERFORMANCES

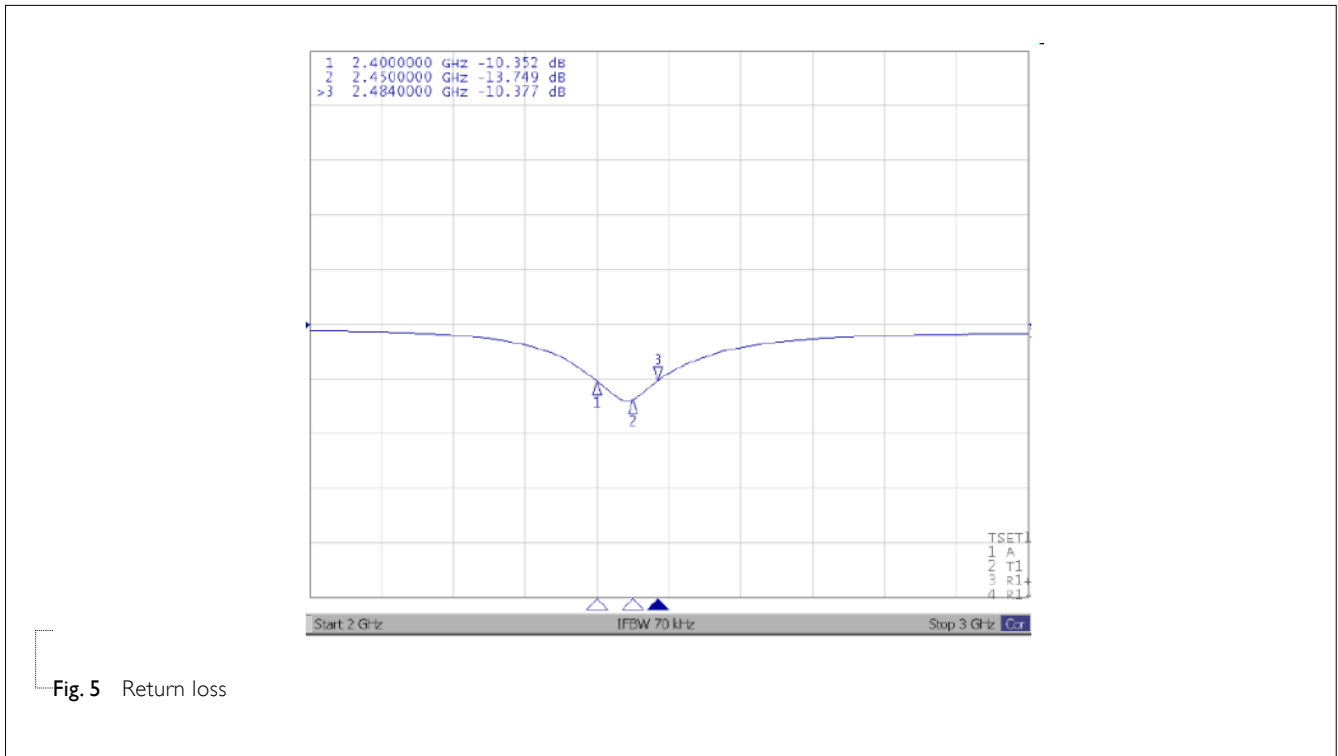


Fig. 5 Return loss

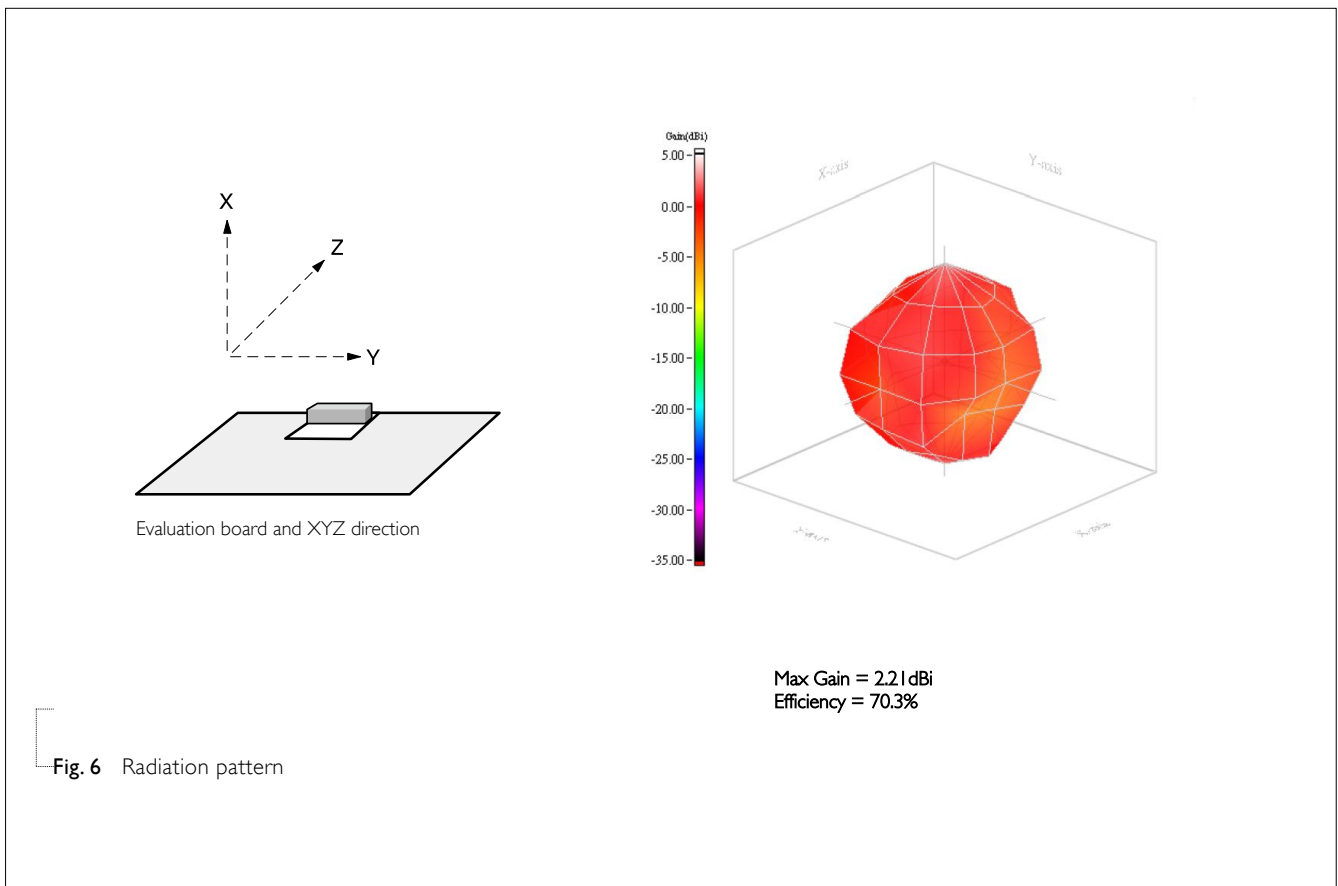


Fig. 6 Radiation pattern

REVISION HISTORY

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

单击下面可查看定价，库存，交付和生命周期等信息

[>>Pulse\(普思\)](#)