

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT1608LL14R2400A

2.4 - 2.5GHz

I608 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 1608 L L14 R 2400A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

1608 = 1.6 × 0.8 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	150 MHz(Typ.)
VSWR	6.0 dB Max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.0 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

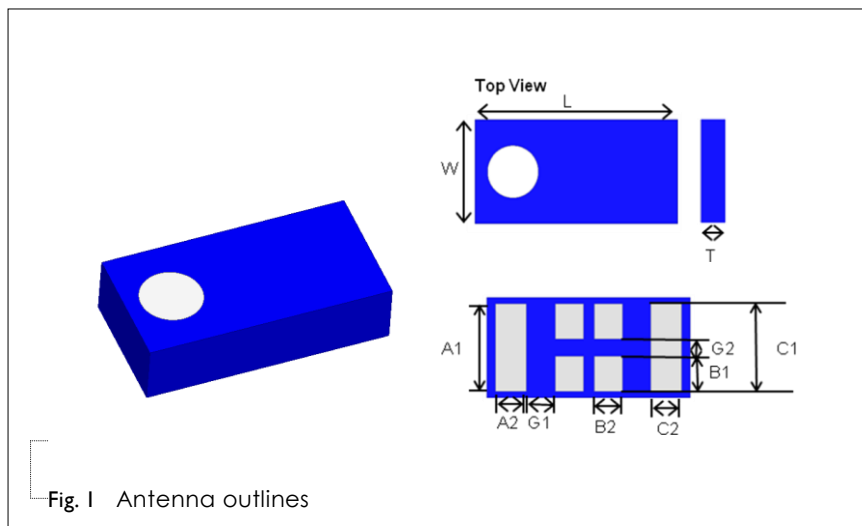
DIMENSIONS

Table 2 Mechanical Dimension

	DIMENSION
L (mm)	1.6 $\pm$ 0.15
W (mm)	0.8 $\pm$ 0.15
T (mm)	0.4(max)
A1 (mm)	0.70 $\pm$ 0.15
A2 (mm)	0.25 $\pm$ 0.15
B1 (mm)	0.30 $\pm$ 0.15
B2 (mm)	0.25 $\pm$ 0.15
C1 (mm)	0.70 $\pm$ 0.15
C2 (mm)	0.25 $\pm$ 0.15
G1 (mm)	0.20 $\pm$ 0.05
G2 (mm)	0.10 $\pm$ 0.05

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
A1, A2	Soldering Pad
C1, C2	Feeding Pad

OUTLINES

REFERENCE DESIGN OF EVALUATION BOARD

◇SCENARIO I

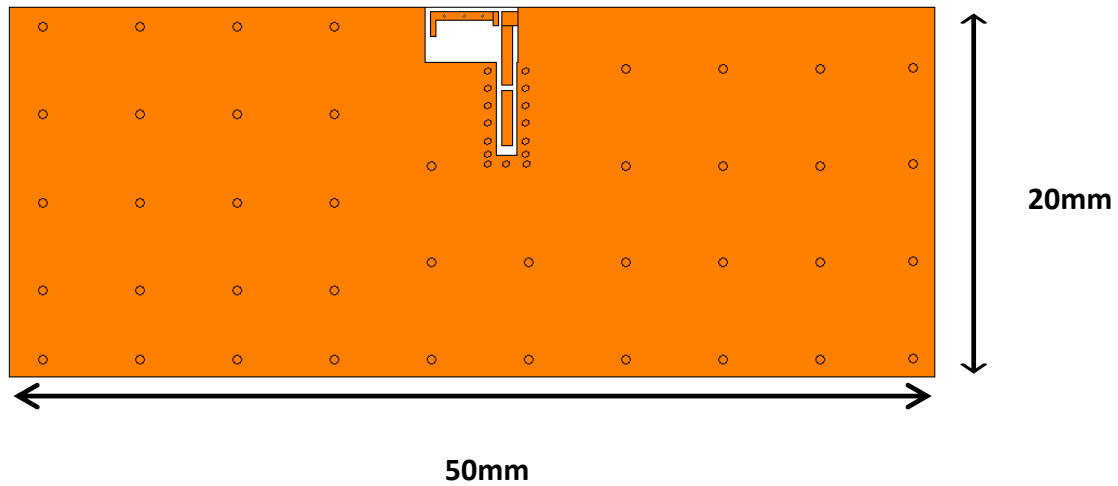


Fig. 2 Outlook and dimension of evaluation board (Scenario 1)

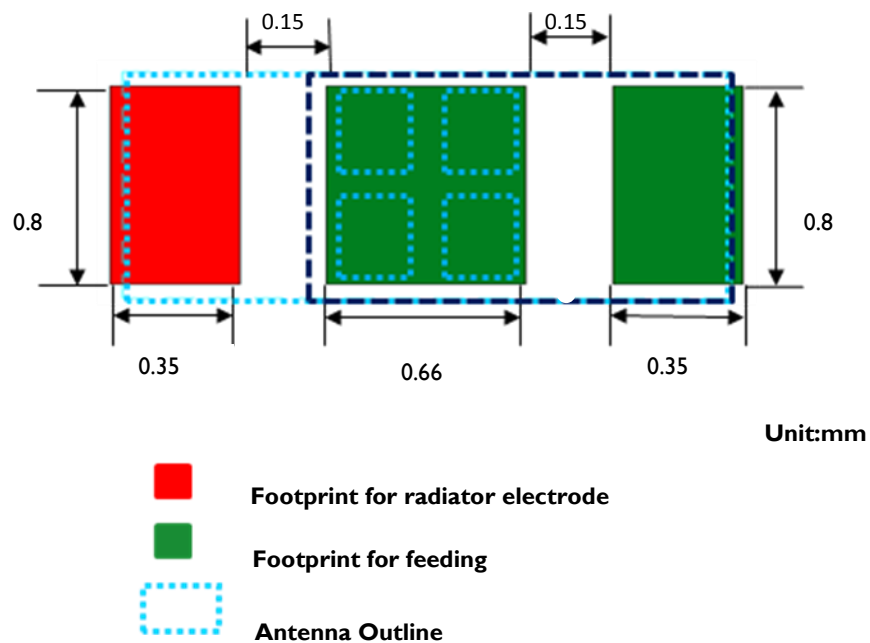


Fig. 3 Footprint

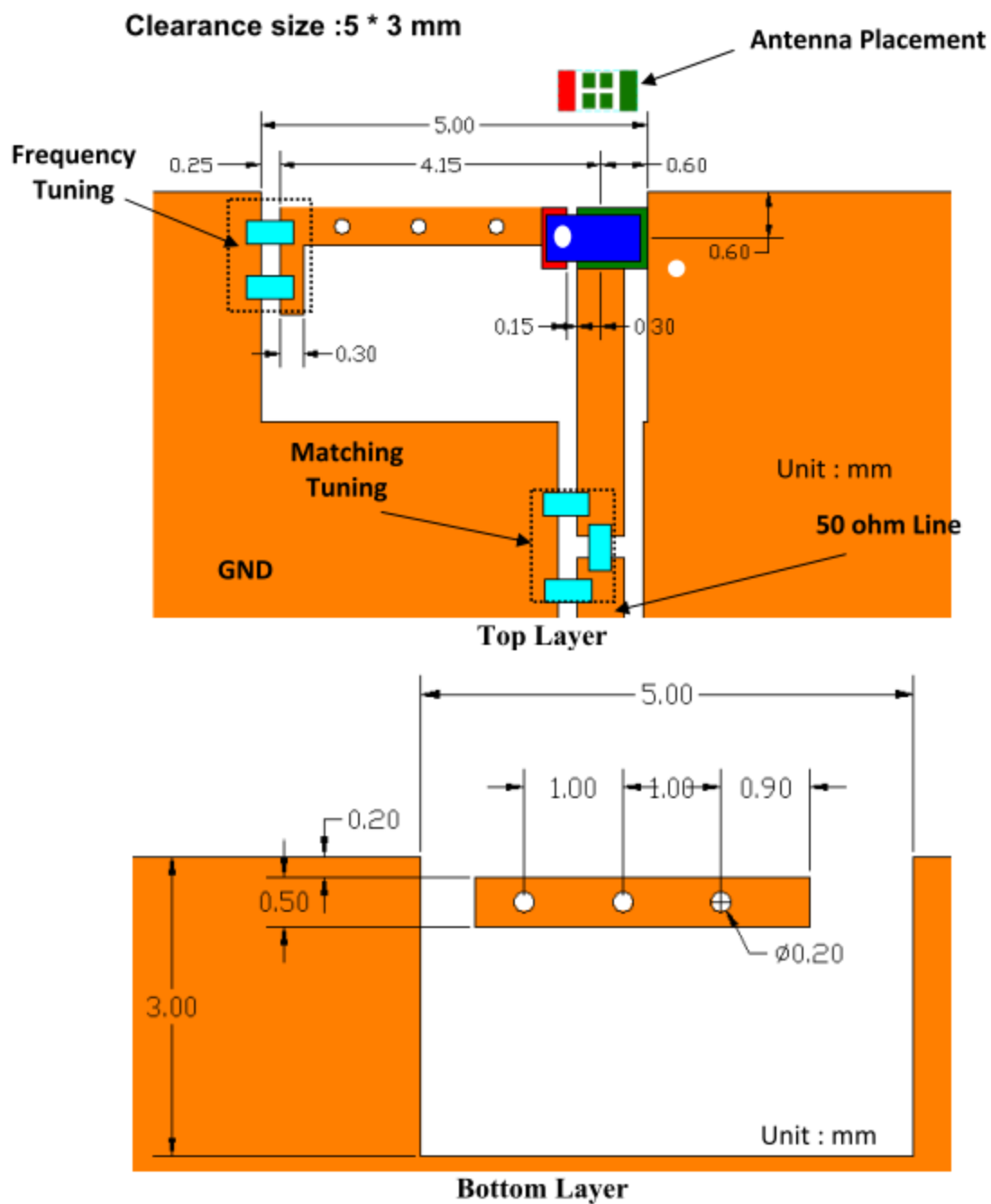


Fig. 4 Details of soldering Pad of Scenario 1

ELECTRICAL PERFORMANCES

◊SCENARIO 1

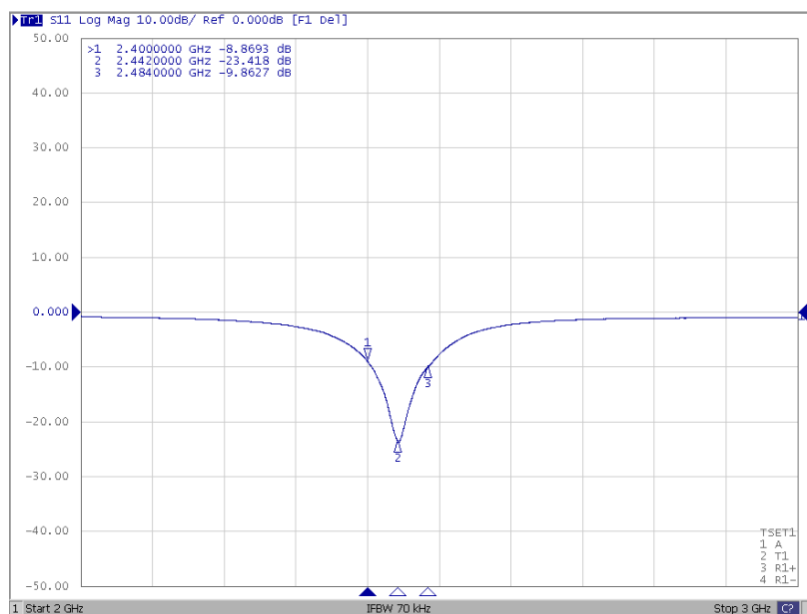


Fig. 5 Return loss of Scenario 1

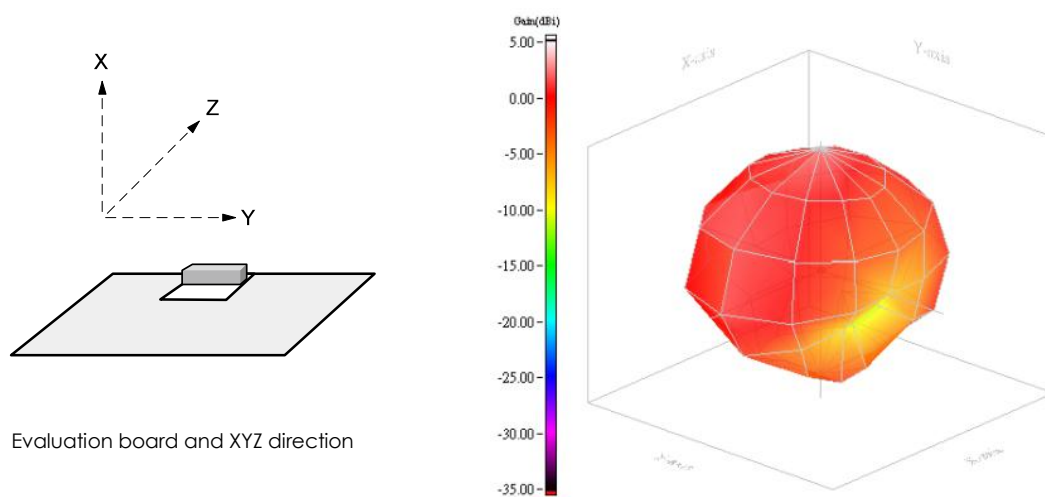


Fig. 6 Radiation pattern of Scenario 1