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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

ANT1608LL14R2455A

2.4 AND 5GHZ

I608 Series



FEATURES

- Compact size
- Omni-directional radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- 2.4&5GHz WiFi 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 I608 L L14 R 2455A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

I608 = 1.6 × 0.8

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L14

(5)PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2455 = 2.4/5GHz

PHYCOMP CTC

CAN4311715142524K

I2NC

431171514252

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Centre Frequency	2.45 G / 5.5 G Hz
Bandwidth	120 / 900 MHz (Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.11 / 3.43 dBi (Typ.)
Impedance	50 ohm
Operating Temperature	- 40~105 °C
Maximum Power	1W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

I. The specification is defined on Yageo evaluation board

DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	1.60 ± 0.15
W (mm)	0.80 ± 0.15
T (mm)	0.40 ± 0.15
A1 (mm)	0.70 ± 0.15
A2 (mm)	0.25 ± 0.15
B1 (mm)	0.30 ± 0.15
B2 (mm)	0.25 ± 0.15
C1 (mm)	0.70 ± 0.15
C2 (mm)	0.25 ± 0.15
G1 (mm)	0.20 ± 0.05
G2 (mm)	0.10 ± 0.05

OUTLINES

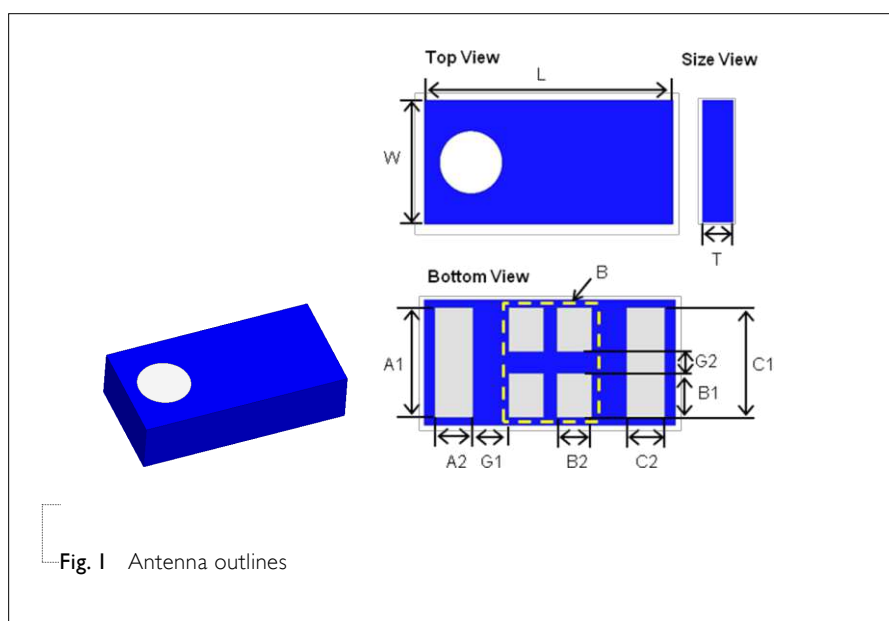


Table 3 Termination configuration

TERMINAL NAME	FUNCTION
B	Feeding Point
A1, A2	Soldering Point for 2.4GHz
C1, C2	Soldering Point for 5 GHz

REFERENCE DESIGN OF EVALUATION BOARD

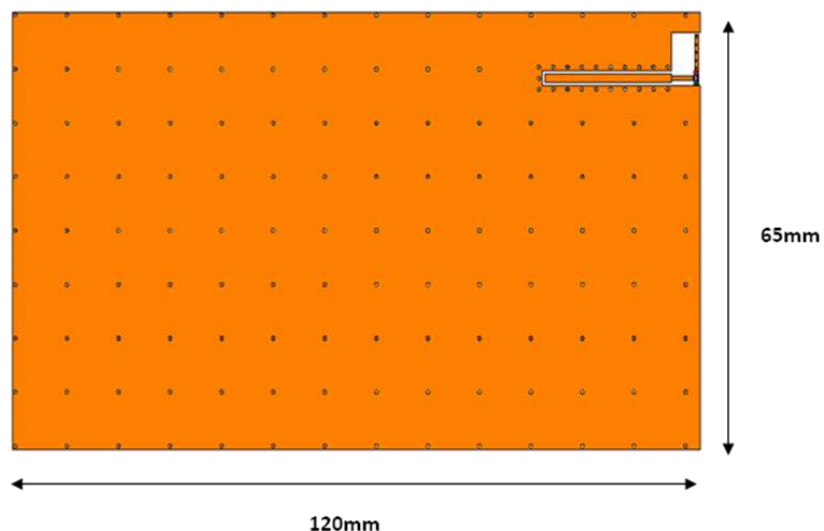


Fig. 2 Outlook and dimension of evaluation board

Clearance size : 8 * 5 mm

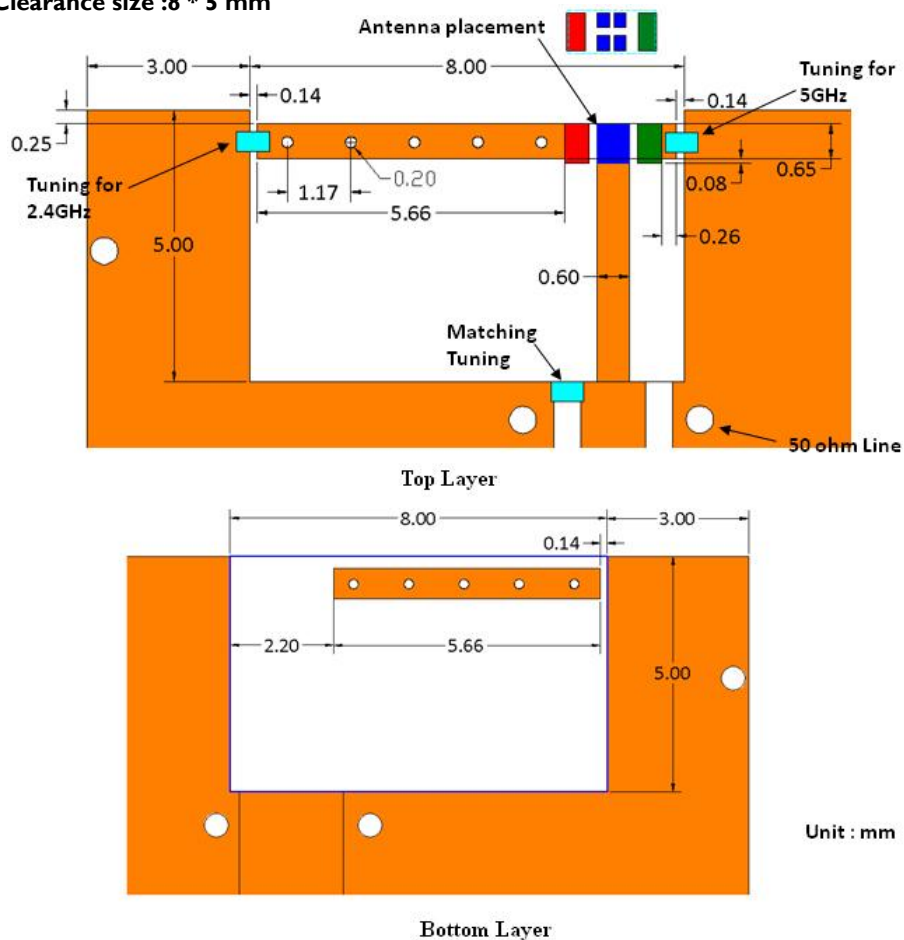


Fig. 3 Details of soldering Pad

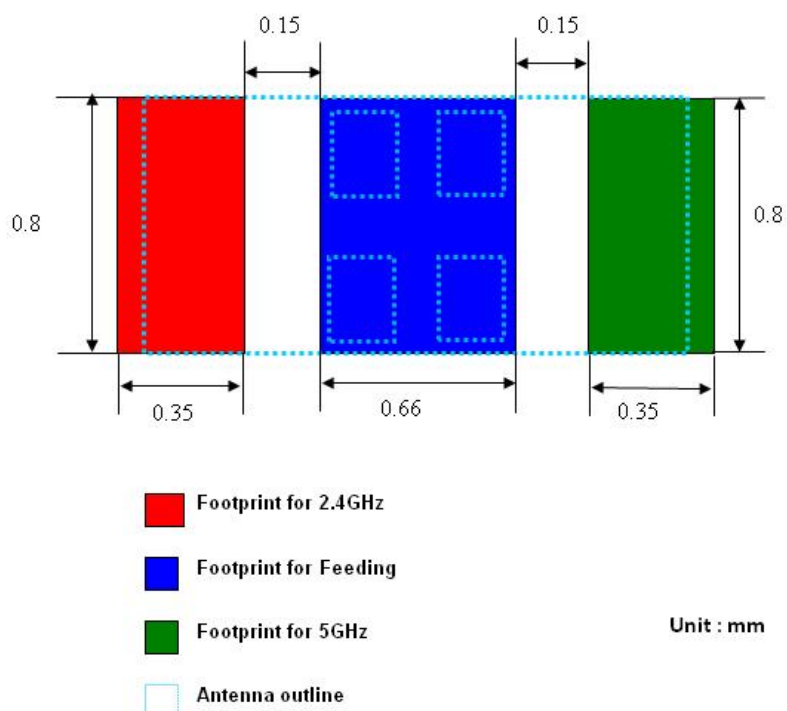


Fig. 4 Footprint

ELECTRICAL PERFORMANCES

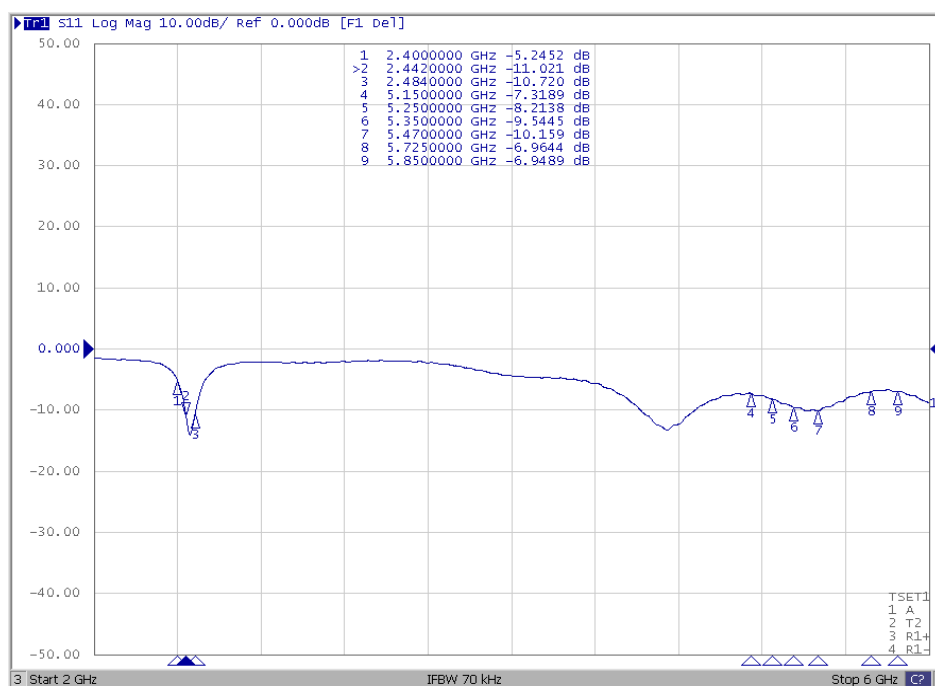


Fig. 5 Return loss

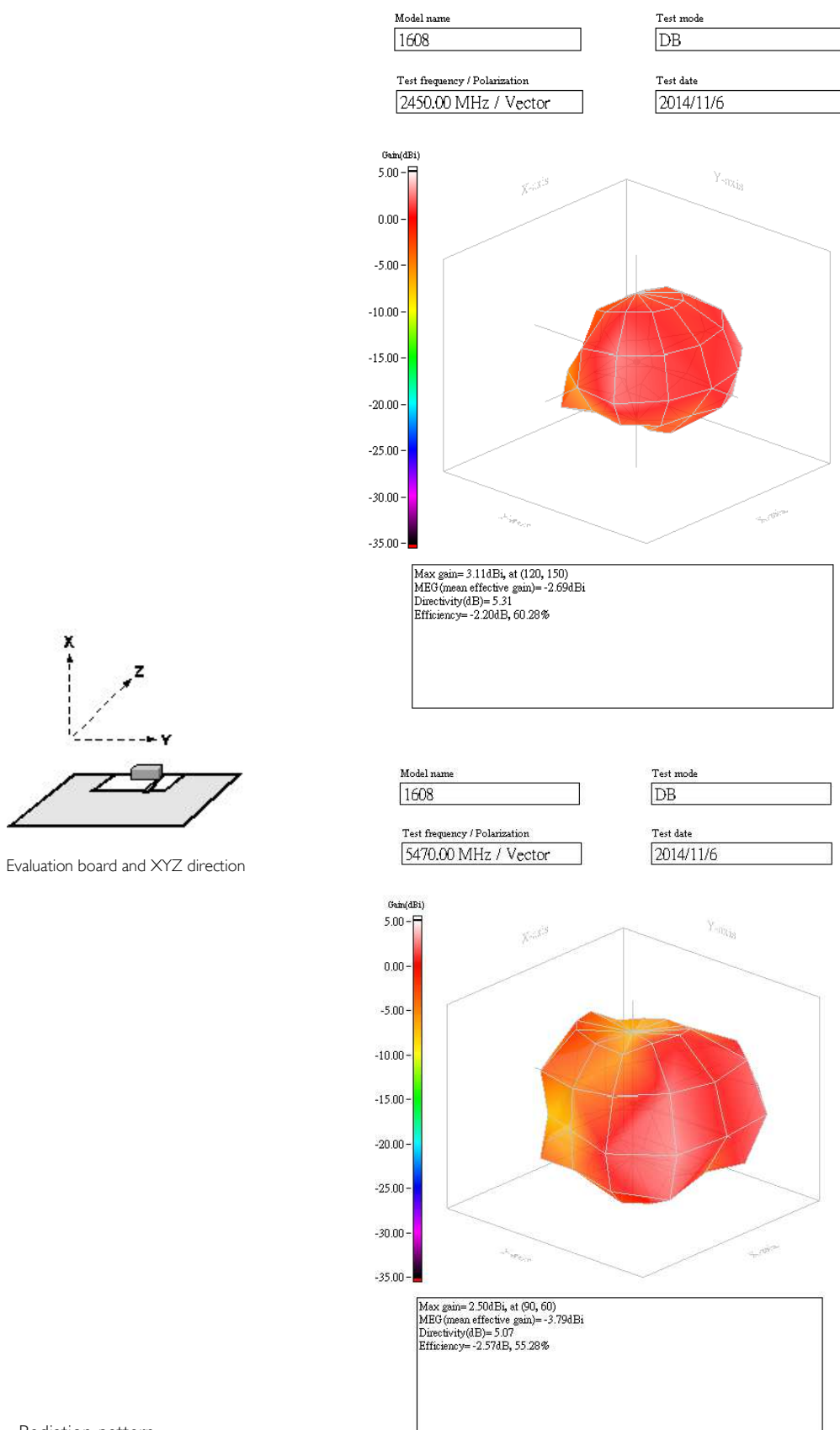


Fig. 6 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Nov. 13, 2014	-	- New datasheet for SMD type antenna, 2.4/5 GHz application, I608 series