

# DATA SHEET

## WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT1608LL14R2455A

2.4 AND 5GHZ

1608 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 1608 L L14 R 2455A**  
 (1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

1608 = 1.6 × 0.8

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**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

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**(4) SERIAL NO.**

L14

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**(5)PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

2455 = 2.4/5GHz

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**PHYCOMP CTC**

CAN4311715142524K

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**I2NC**

431171514252

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**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**

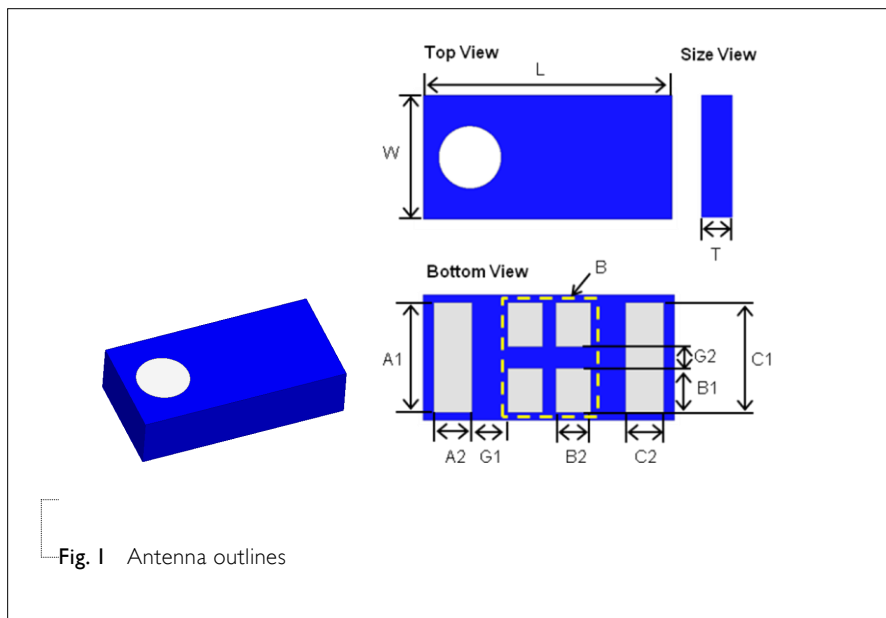


Fig. 1 Antenna outlines

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

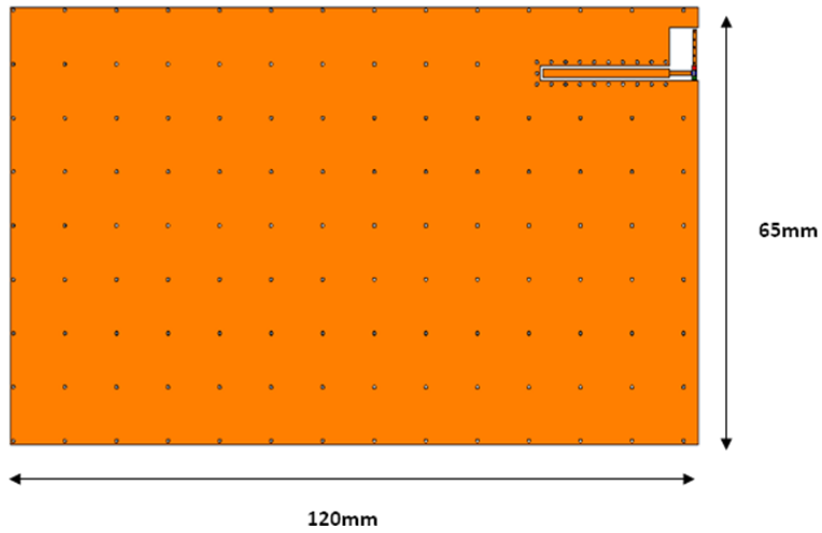


Fig. 2 Outlook and dimension of evaluation board

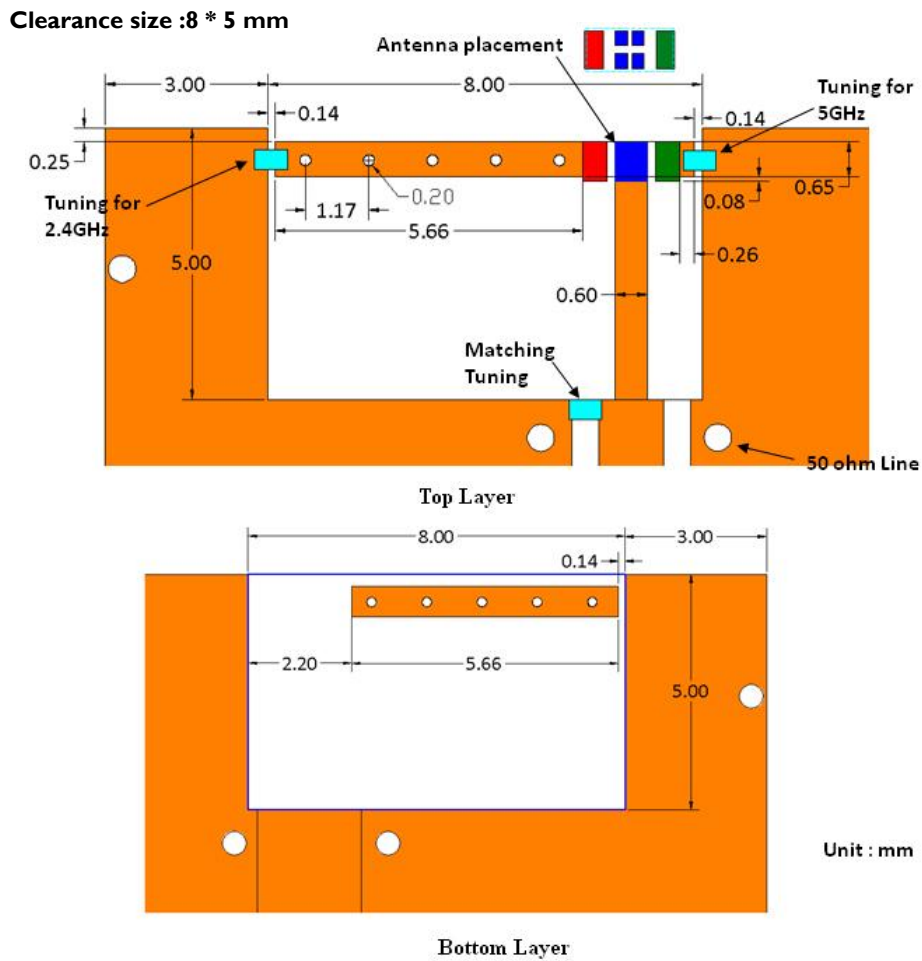


Fig. 3 Details of soldering Pad

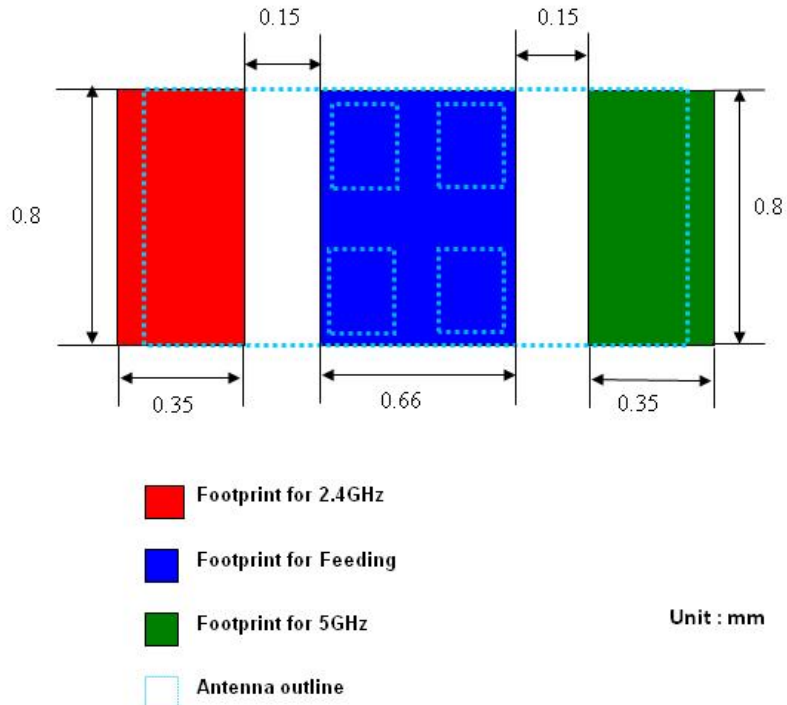


Fig. 4 Footprint

**ELECTRICAL PERFORMANCES**

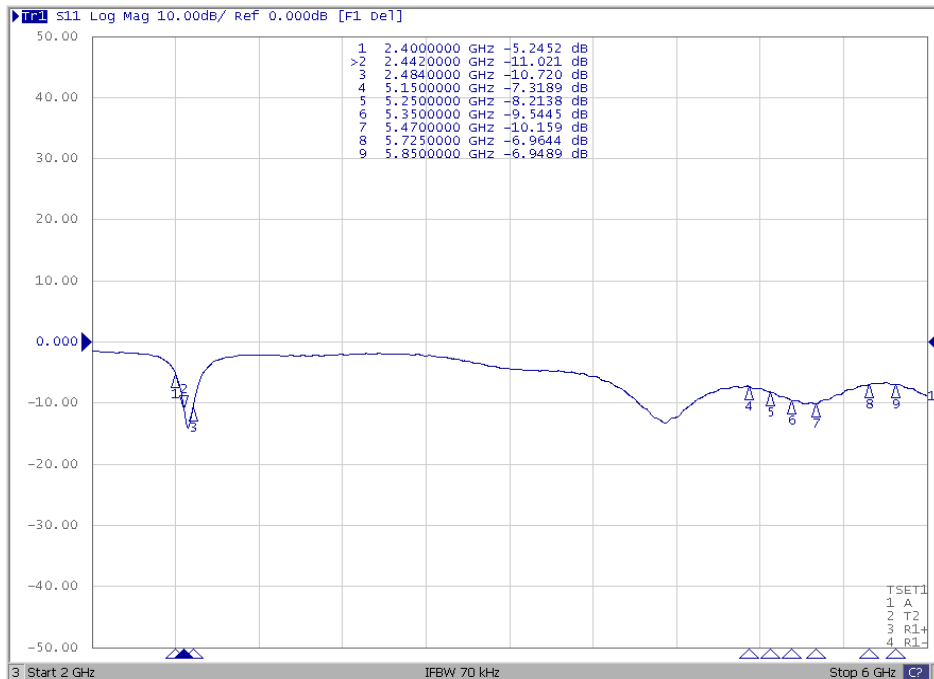
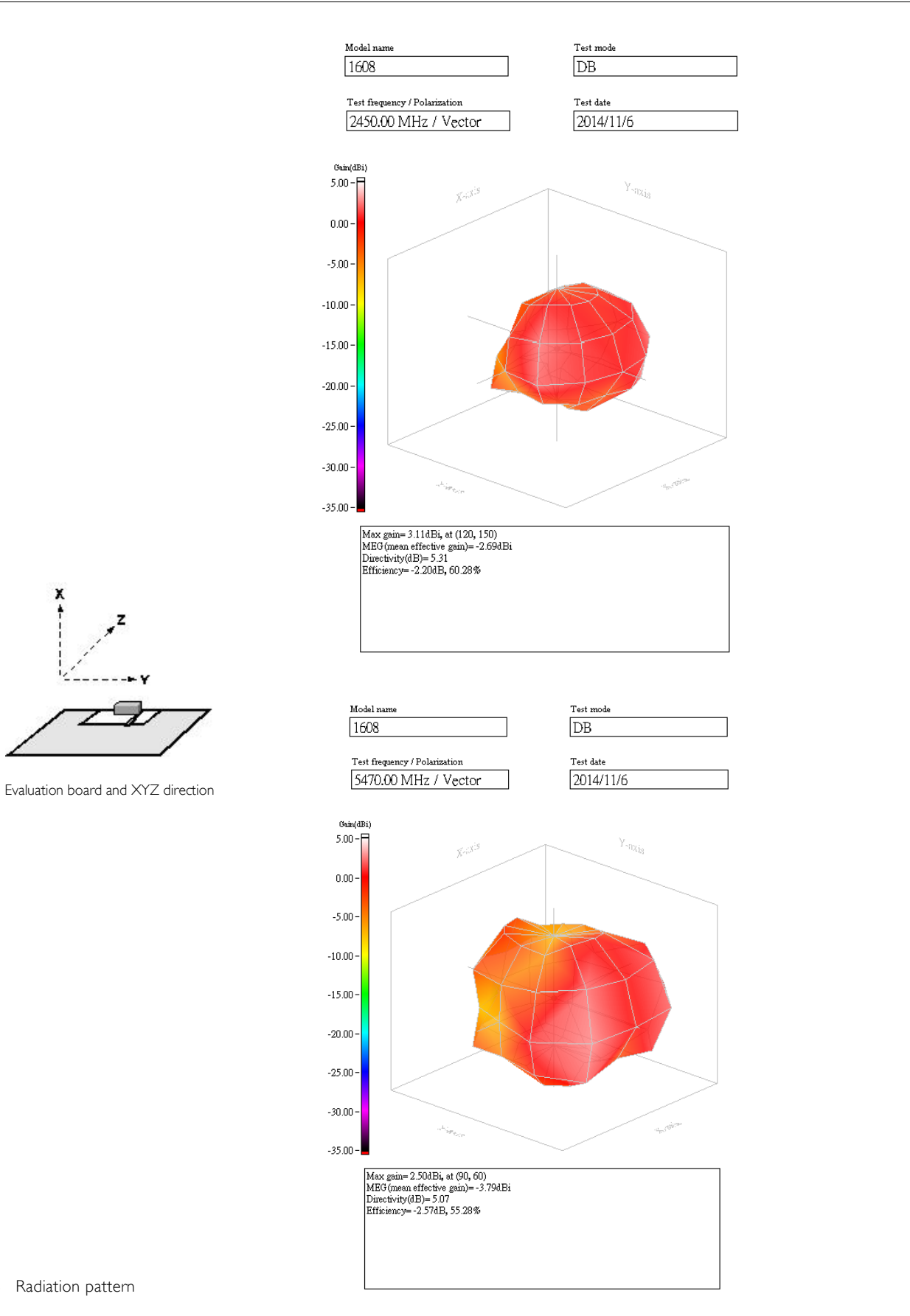


Fig. 5 Return loss



**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