

# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT2012LL00R2400A

2.4 – 2.5 GHz

2012 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 2012 L L00 R 2400A**  
 (1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

2012 = 2.0 × 1.2 mm

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**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

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**(4) SERIAL NO.**

L00

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**(5) PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

2400 = 2.4GHz

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**PHYCOMP CTC**

CAN4311714002454K

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**I2NC**

431171400245

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**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Centre Frequency	2.45 GHz
Bandwidth	370 MHz (Typ.)
Return Loss	10 dBi min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.77 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

**NOTE**

1. The specification is defined on Yageo evaluation board

**DIMENSIONS**

Table 2 Machinical Dimension

	DIMENSION
L (mm)	2.00 ±0.20
W (mm)	1.25 ±0.20
T (mm)	1.10 ±0.10
A (mm)	0.15 ±0.10

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Soldering Point

**OUTLINES**

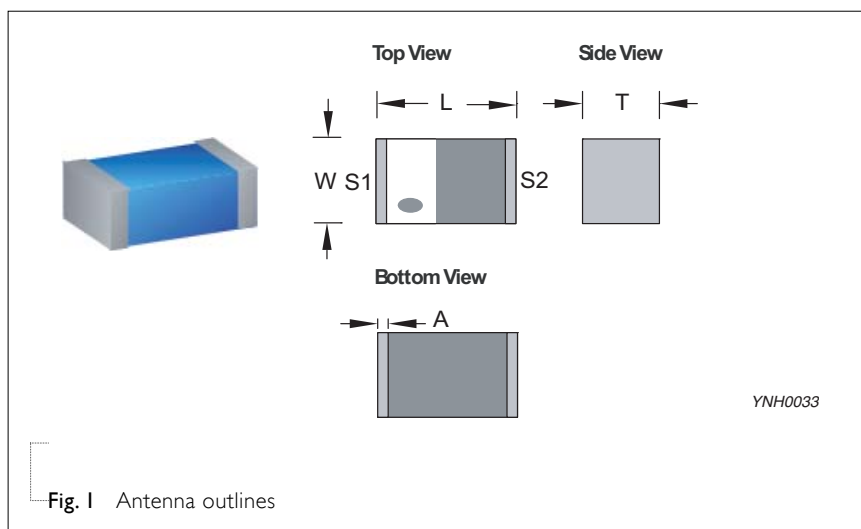
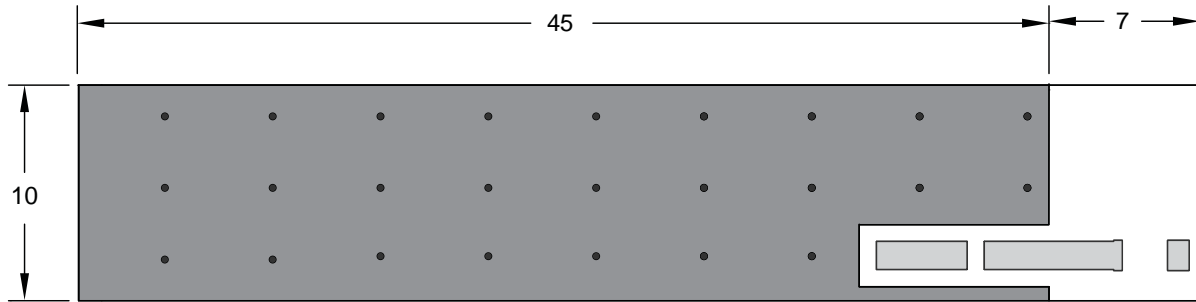


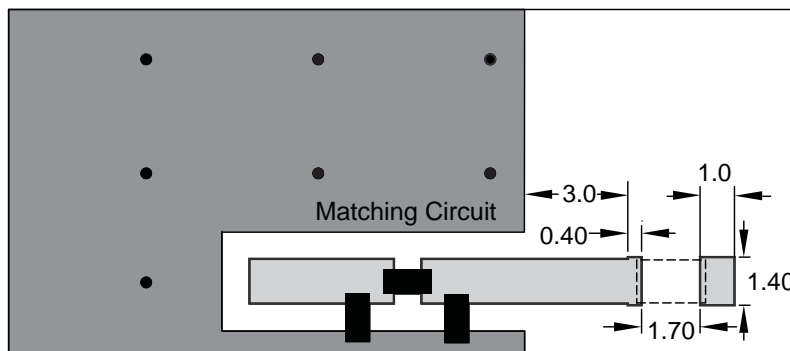
Fig. 1 Antenna outlines

**REFERENCE DESIGN OF EVALUATION BOARD**



**Fig. 3** Outlook and dimension of evaluation board

Unit : mm

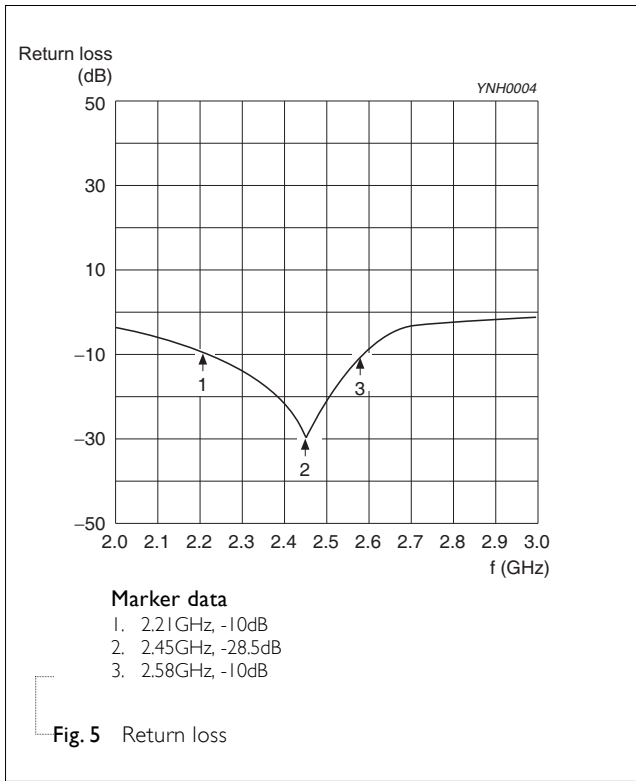


Unit : mm

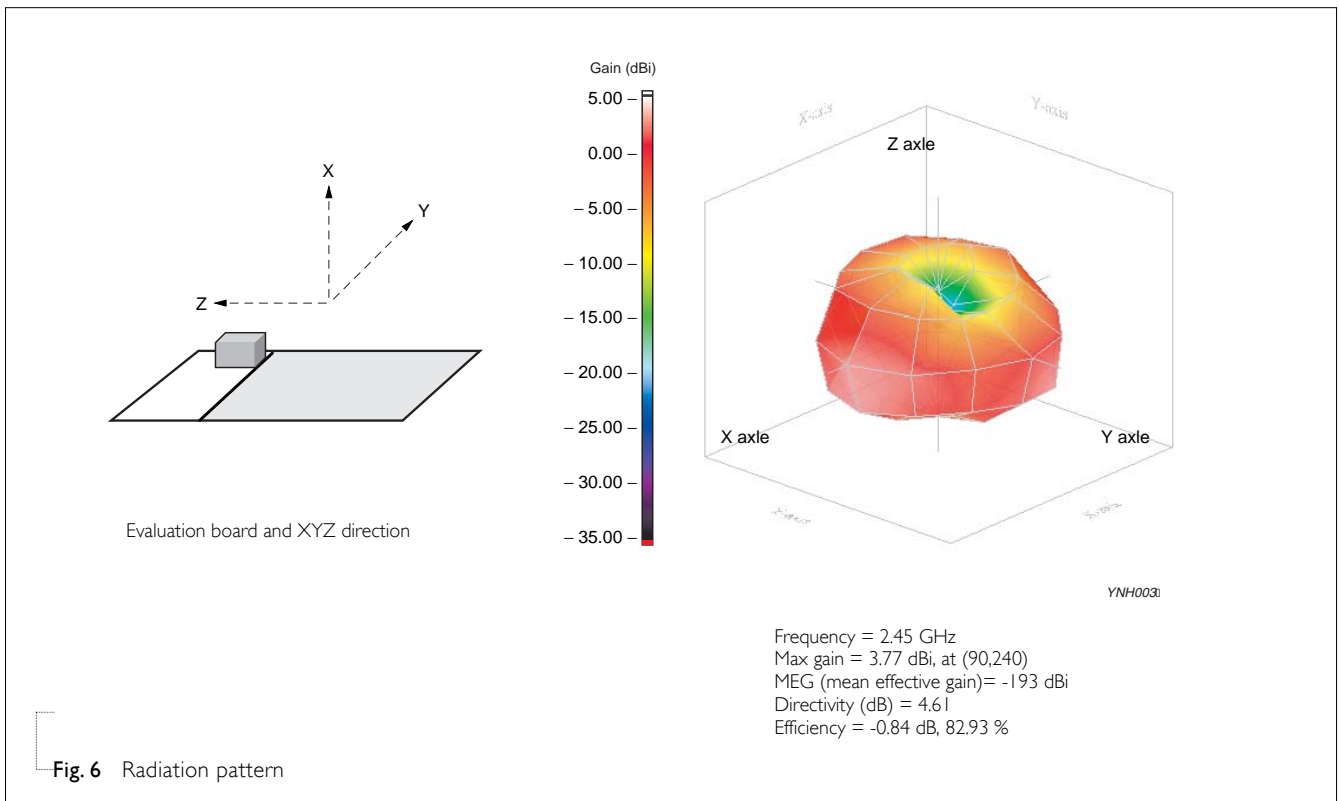
YNH0034

**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. 22, 2013	-	- New data sheet for SMD type antenna, 2.45GHz application, 2012 series

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