

# DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT1204LL08R0870A

870MHZ

1204 Series



FEATURES

- Compact size
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Smart meter
- Industrial remote control
- 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 1204 L L08 R 0870A**

(1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

1204 = 12 × 4

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**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

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**(4) SERIAL NO.**

L08

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**(5) PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

0870 = 0.87GHz

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**PHYCOMP CTC**

CAN4311759080871K

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**I2NC**

431175908087

**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Centre Frequency	870MHz
Bandwidth	34 MHz (Typ.)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.51 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**

I. The specification is defined on Yageo evaluation board

**DIMENSIONS**

Table 2 Machinical Dimension

	DIMENSION
L (mm)	12.10 ±0.20
W (mm)	4.10 ±0.20
T (mm)	1.60 ±0.20
A (mm)	0.85 ±0.35

**OUTLINES**

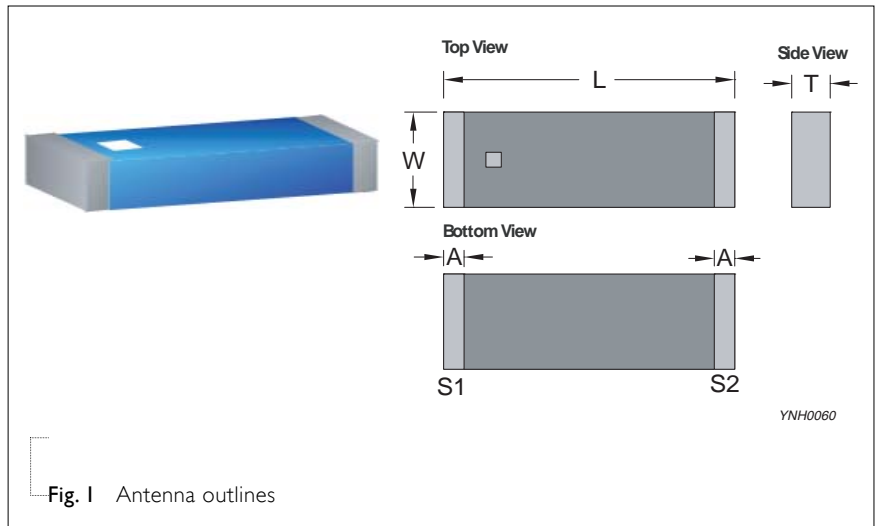
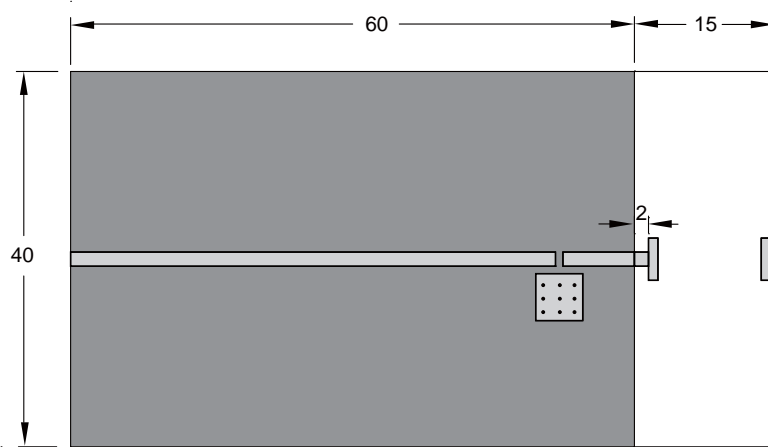


Fig. 1 Antenna outlines

Table 3 Termination configuration

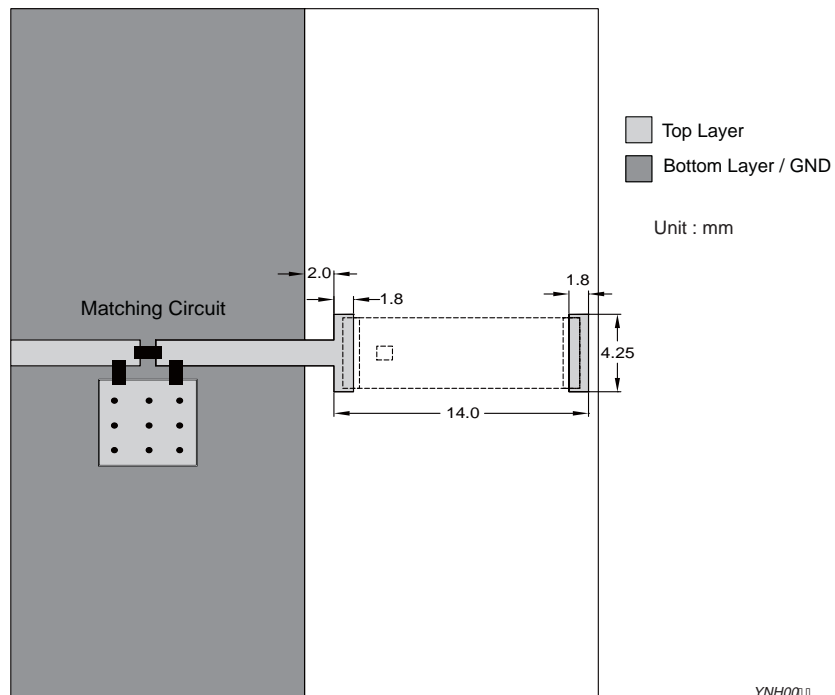
TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Soldering Point

**REFERENCE DESIGN OF EVALUATION BOARD**



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

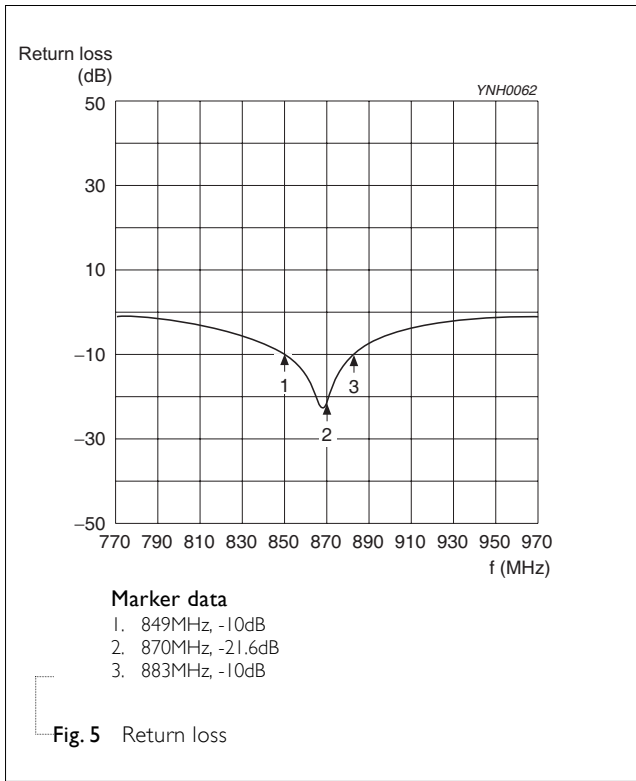
Unit : mm



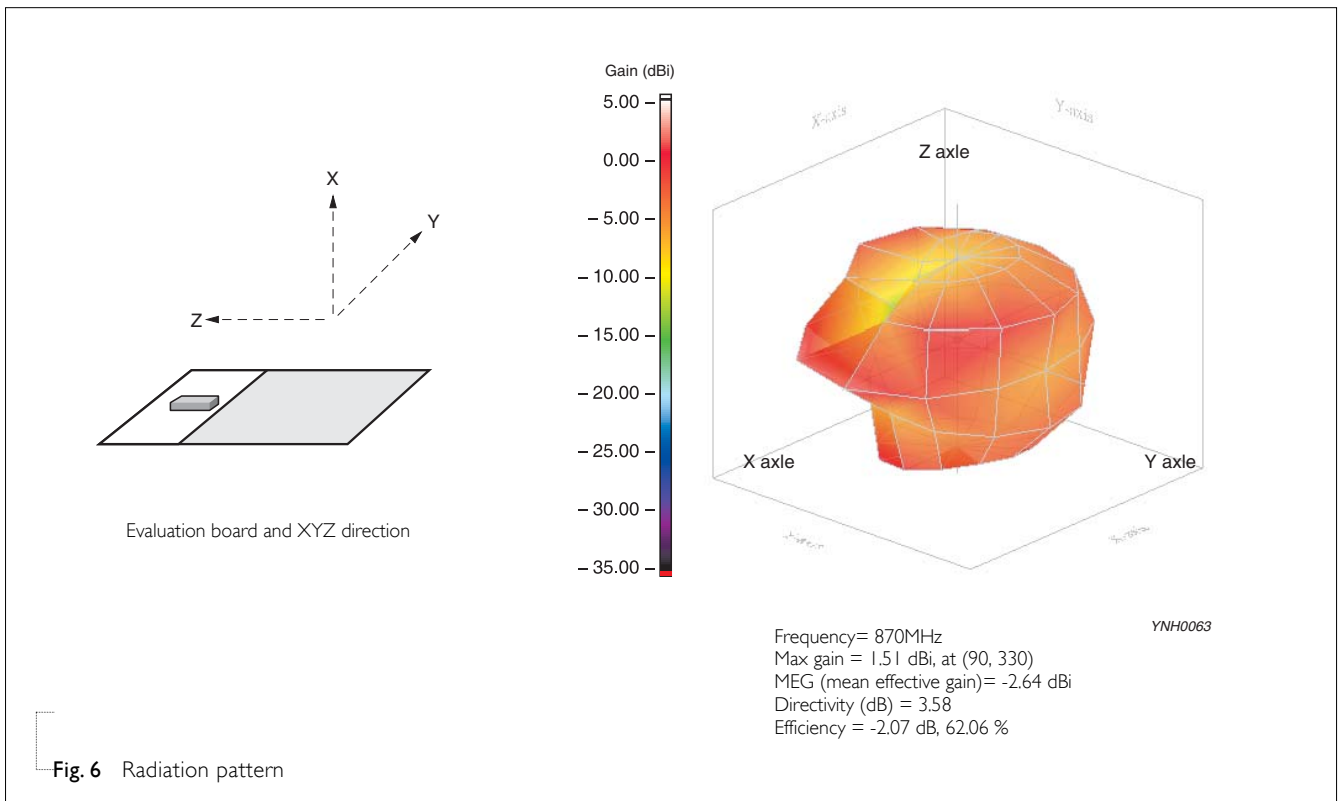
**Fig. 4** Details of soldering Pad

YNH000

**ELECTRICAL PERFORMANCES**



**Fig. 5** Return loss



**Fig. 6** Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Jan. 24, 2013	-	- New data sheet for SMD type antenna, 870MHz application, I204 series

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