

# DATA SHEET

**WIRELESS COMPONENTS**

Ceramic Chip Antenna

ANT1204LL05R0915A

915 MHz

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
- 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 1204 L L05 R 0915A**  
(1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

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ANT = Antenna

**(2) SIZE**

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1204= 12 × 4 mm

**(3) ANTENNA TYPE**

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L,F,A = Chip Antenna

**(4) SERIAL NO.**

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L05

**(5) PACKING STYLE**

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R = Tape and Reel

**(6) WORKING FREQUENCY**

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0915 =0.915GHz

**PHYCOMP CTC**

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CAN4311759050911K

**I2NC**

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431175905091

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**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Centre Frequency	915 MHz
Bandwidth	20 MHz (Typ.)
VSWR	2.0 Max.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.32 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)	12.1 ±0.20
W (mm)	4.10 ±0.20
T (mm)	1.60 ±0.20
F (mm)	0.85 ±0.35

**OUTLINES**

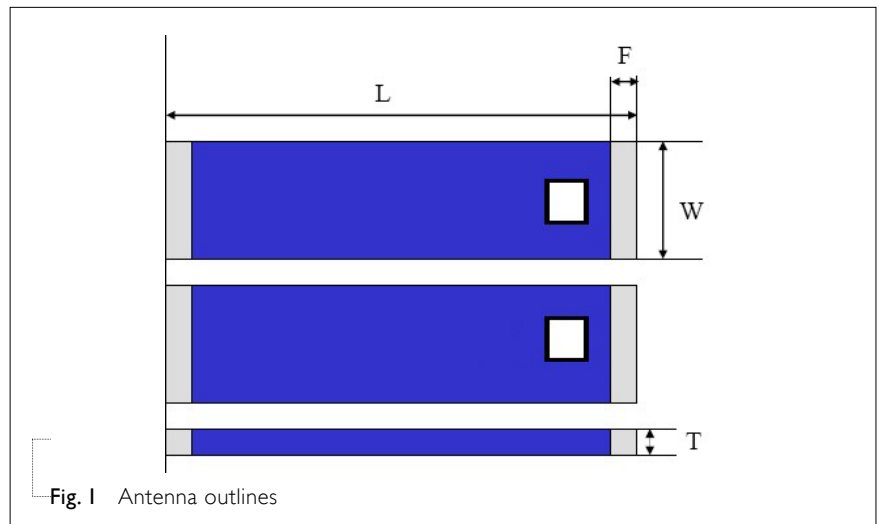
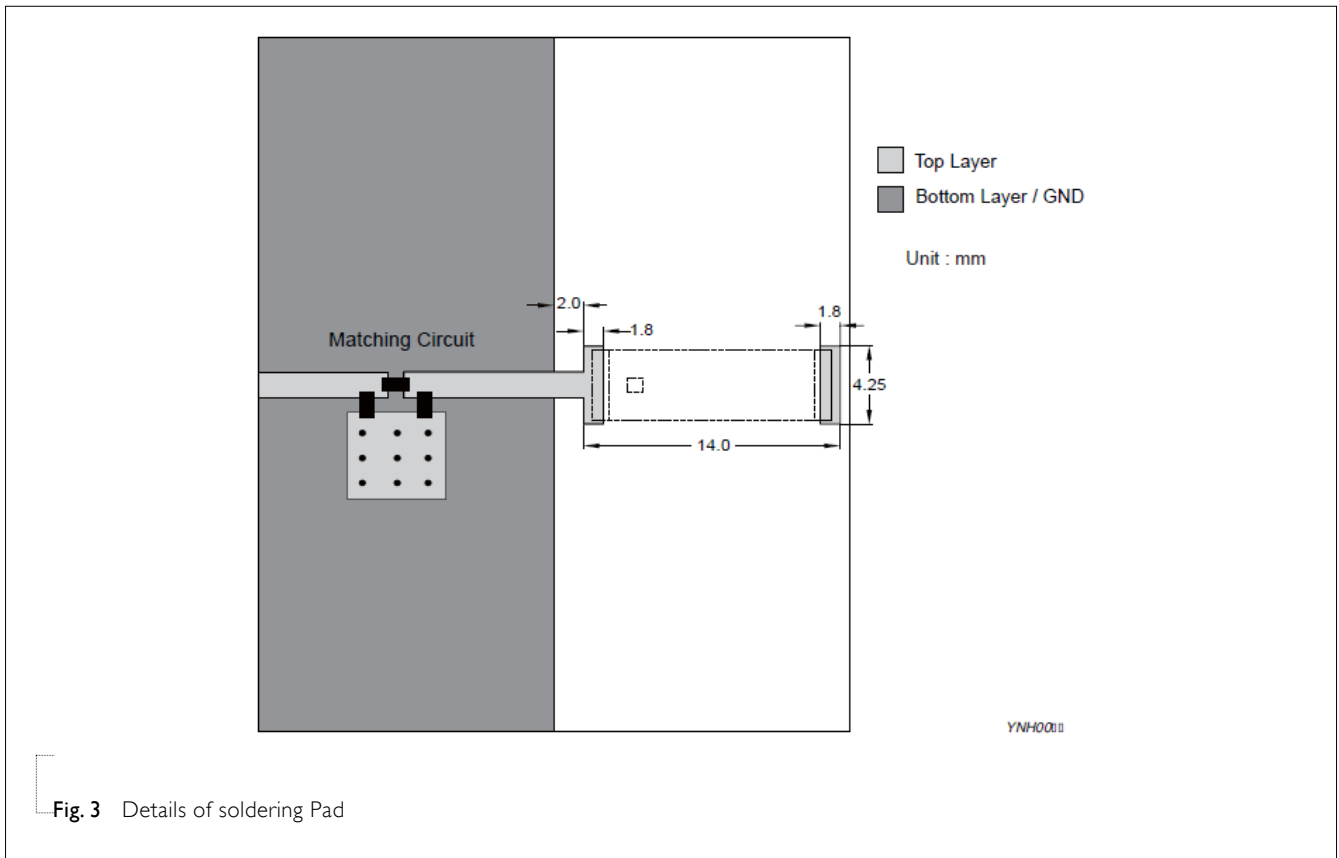
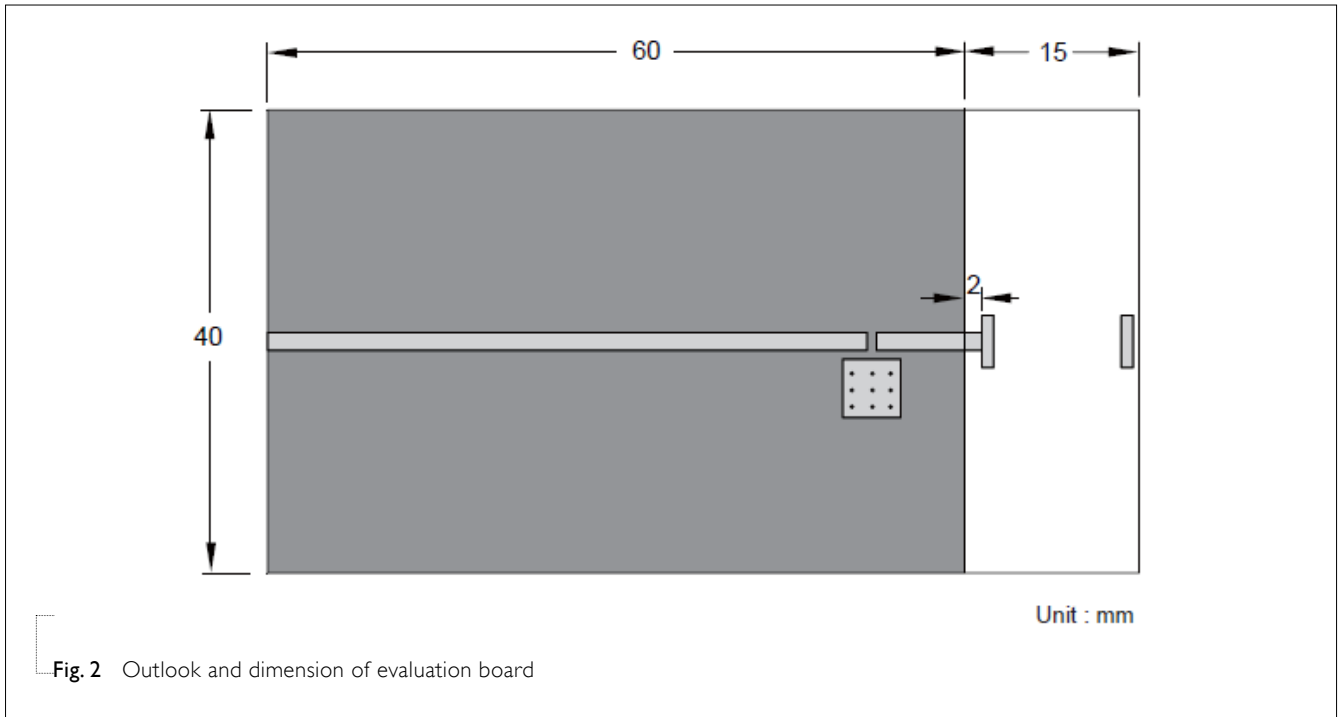


Fig. 1 Antenna outlines

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
W	Feeding Point
L	Soldering Point

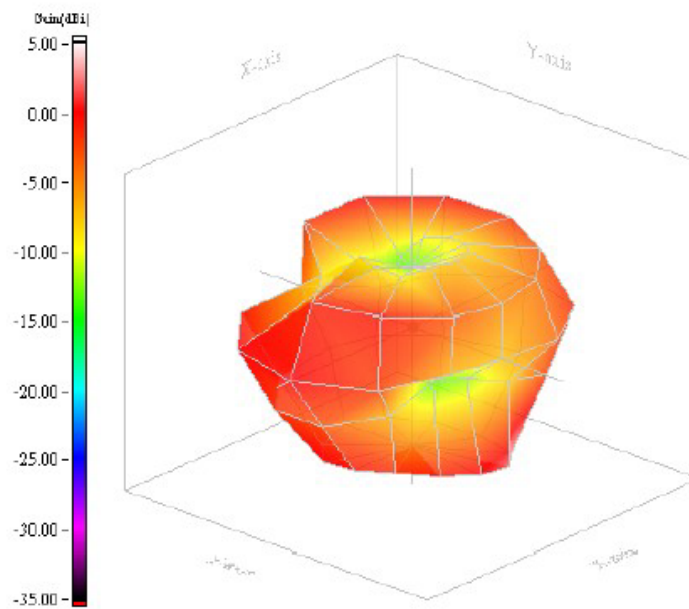
REFERENCE DESIGN OF EVALUATION BOARD



**ELECTRICAL PERFORMANCES**



**Fig. 4** Return loss



Frequency= 915 MHz  
Max gain = 3.32dBi, at (150,180)  
MEG (mean effective gain)= -3.11 dBi  
Directivity (dB) = 5.92  
Efficiency = -2.60dB, 55.02 %

**Fig. 5** Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	May 29, 2013	-	- New data sheet for SMD type antenna, 915 MHz application, I204 series.

# Mouser Electronics

Authorized Distributor

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Yageo:

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