



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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

ANT1204LL05R0915A

915 MHz

I204 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 I204 L L05 R 0915A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

I204= 12 × 4 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L05

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

0915 = 0.915GHz

PHYCOMP CTC

CAN4311759050911K

I2NC

431175905091

SPECIFICATION

Table I

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

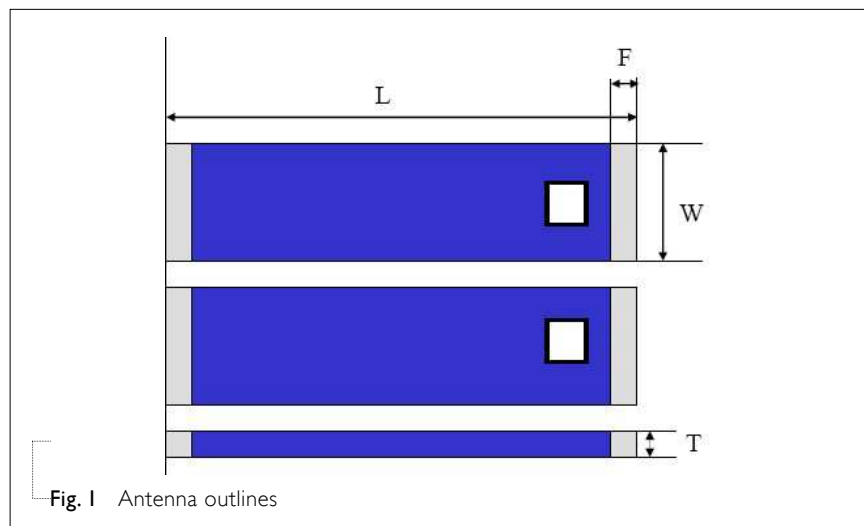
DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	12.1 \pm 0.20
W (mm)	4.10 \pm 0.20
T (mm)	1.60 \pm 0.20
F (mm)	0.85 \pm 0.35

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
W	Feeding Point
L	Soldering Point

OUTLINES

REFERENCE DESIGN OF EVALUATION BOARD

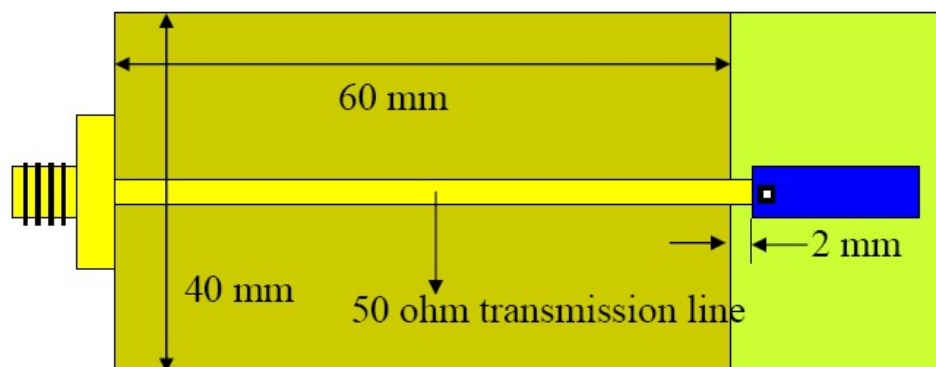
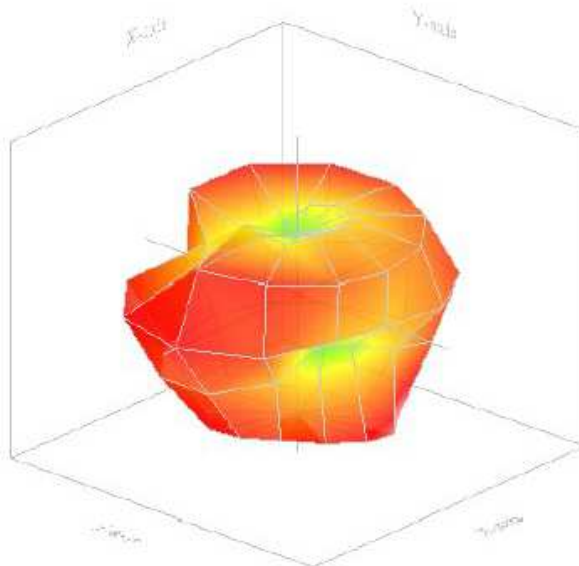


Fig. 2 Outlook and dimension of evaluation board

ELECTRICAL PERFORMANCES



Fig. 3 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. 4 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 22, 2013	-	- New data sheet for SMD type antenna, 915 MHz application, I204 series.