Innovative Service Around the Globe YAGEO

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT1204LL05R0915A

915 MHz

1204 Series

YAGEO Phycomp

Product Specification – January 17, 2018 V.0

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

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)

(1) PRODUCT

ANT = Antenna

(2) SIZE

1204= 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

12NC

431175905091

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 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE

1. 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

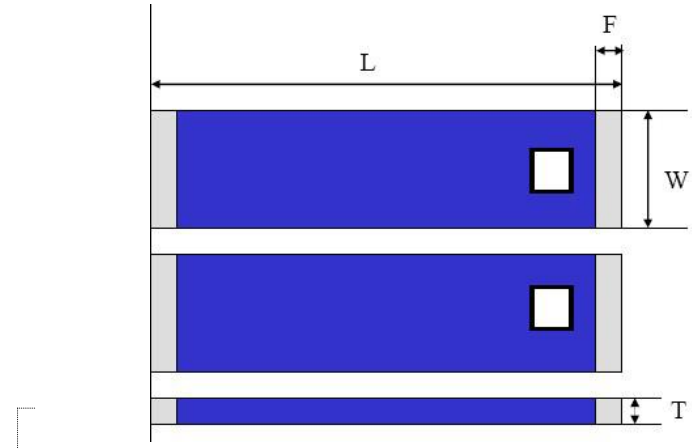


Fig. 1 Antenna outlines

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
W	Feeding Point
L	Soldering Point

REFERENCE DESIGN OF EVALUATION BOARD

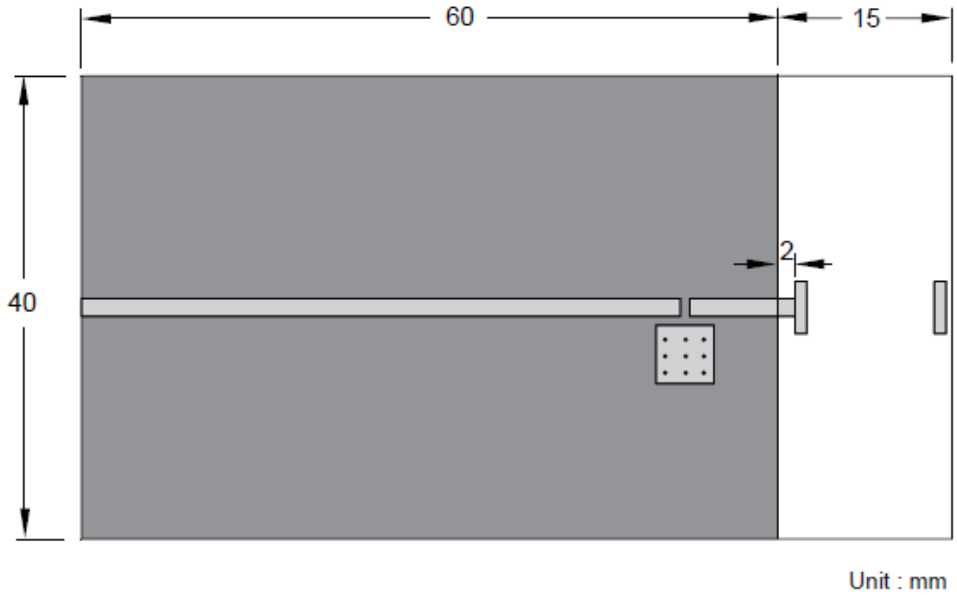


Fig. 2 Outlook and dimension of evaluation board

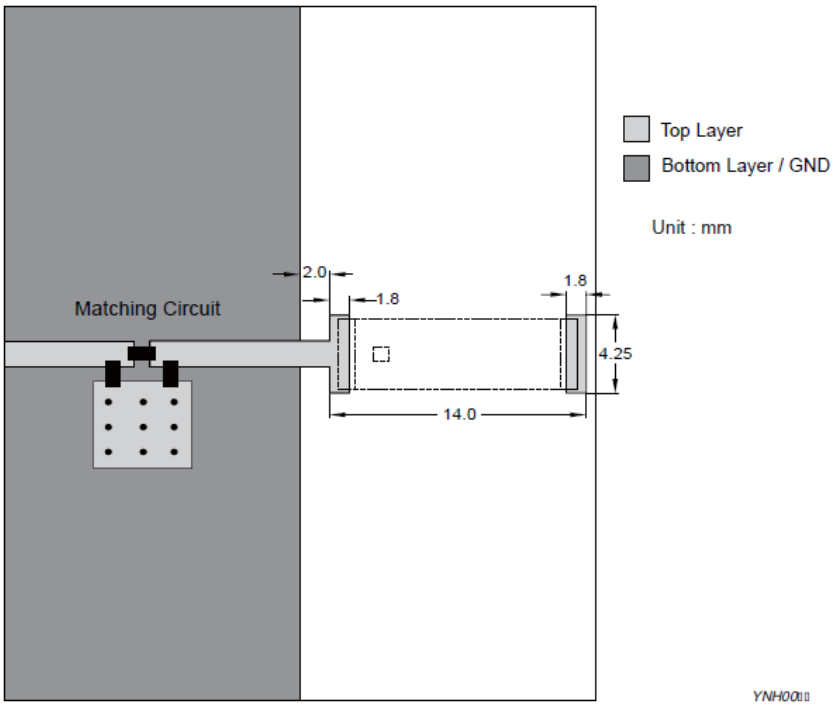


Fig. 3 Details of soldering Pad

ELECTRICAL PERFORMANCES

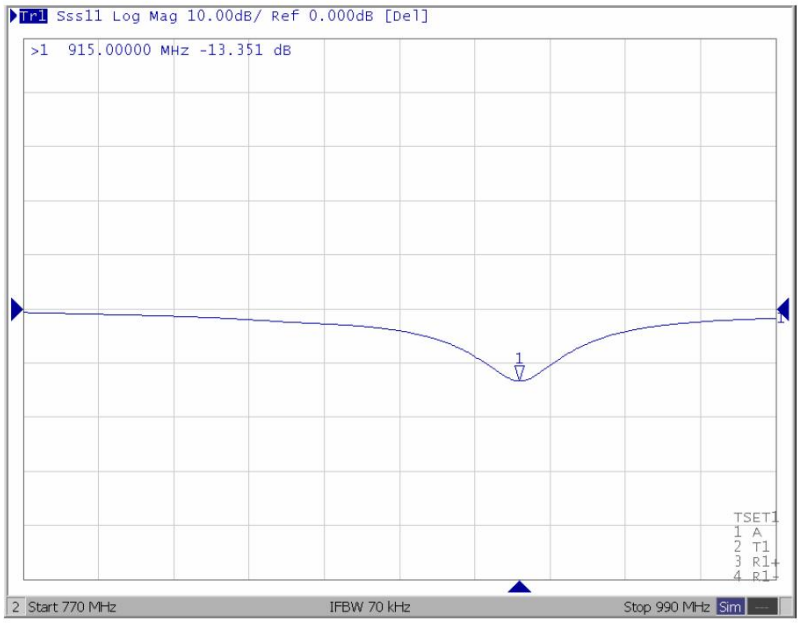
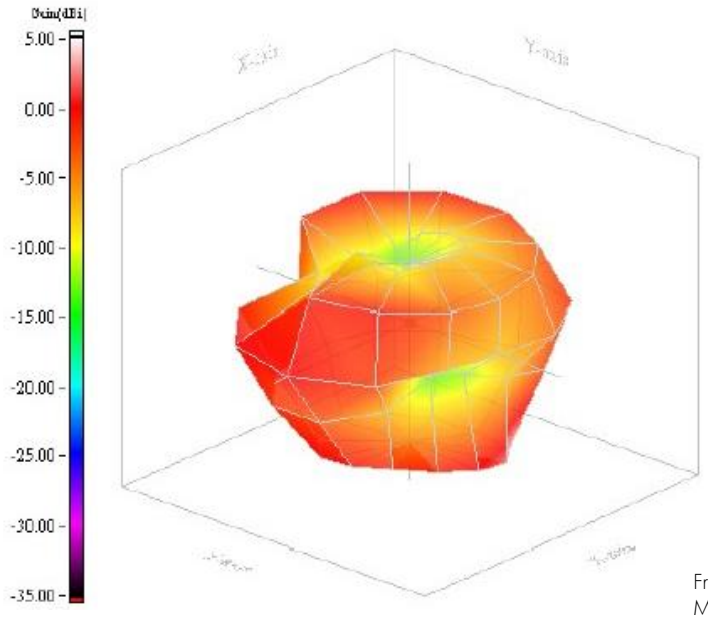


Fig. 4 Return loss



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

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, 1204 series.
Version 0	Jan 17, 2018	-	- Text correction