



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT2112A010B0918A

CELLULAR-BAND

2112 Series



FEATURES

- Compact size
- High radiation efficiency
- Multi-band coverage
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Global cellular network devices
- Telematics
- Cellular broadband access
- M2M module

ORDERING INFORMATION

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

PART NUMBER

ANT 2112 A 010 B 0918A
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

2112=21×12 mm

(3) ANTENNA TYPE

L, F, A=Chip antenna

(4) SERIAL NO.

010

(5) PACKING STYLE

B = Bag

(6) WORKING FREQUENCY

0918 = 900 / 1800 MHz

PHYCOMP CTC

CAN4313284109181B / CAN4313218009181B

12NC

431328410918

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Centre Frequency	900/1800 MHz
Bandwidth	30 / 170 MHz (Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.5~1 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	4W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Yageo evaluation board

DIMENSIONS

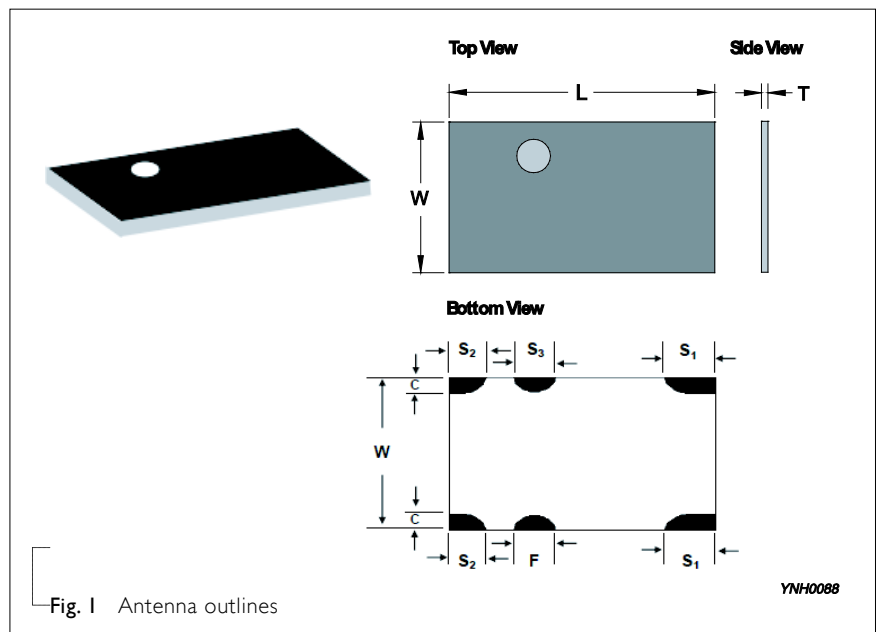
Table 2 Machinical Dimension

	DIMENSION
L (mm)	20.50 ± 0.25
W (mm)	11.8 ± 0.20
F (mm)	3.0 ± 0.25
C (mm)	1.00 ± 0.30
S1 (mm)	4.0 ± 0.35
S2 (mm)	2.8 ± 0.35
S3 (mm)	3.0 ± 0.35
T (mm)	0.5 ± 0.15

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
F	Feeding Point

OUTLINES

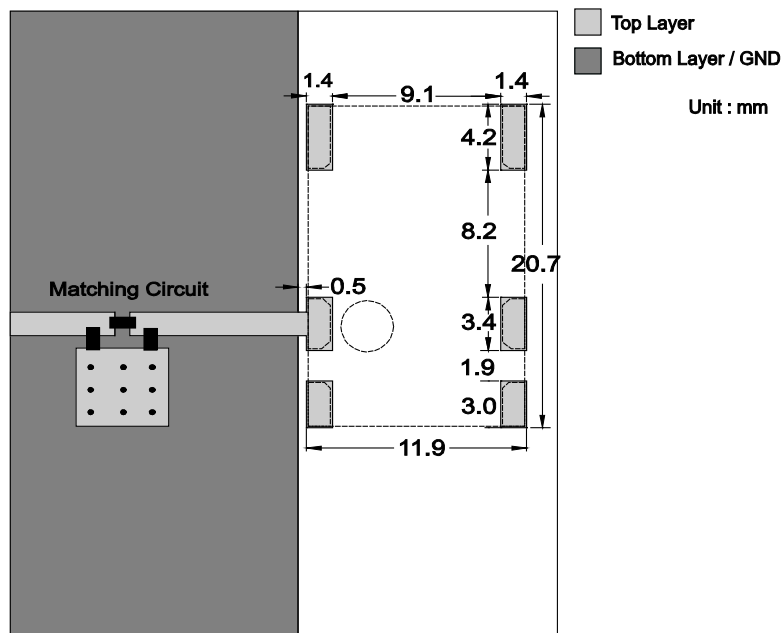


REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Fig. 2 Outlook and dimension of evaluation board



YNH0089

Fig. 3 Details of soldering Pad

ELECTRICAL PERFORMANCES

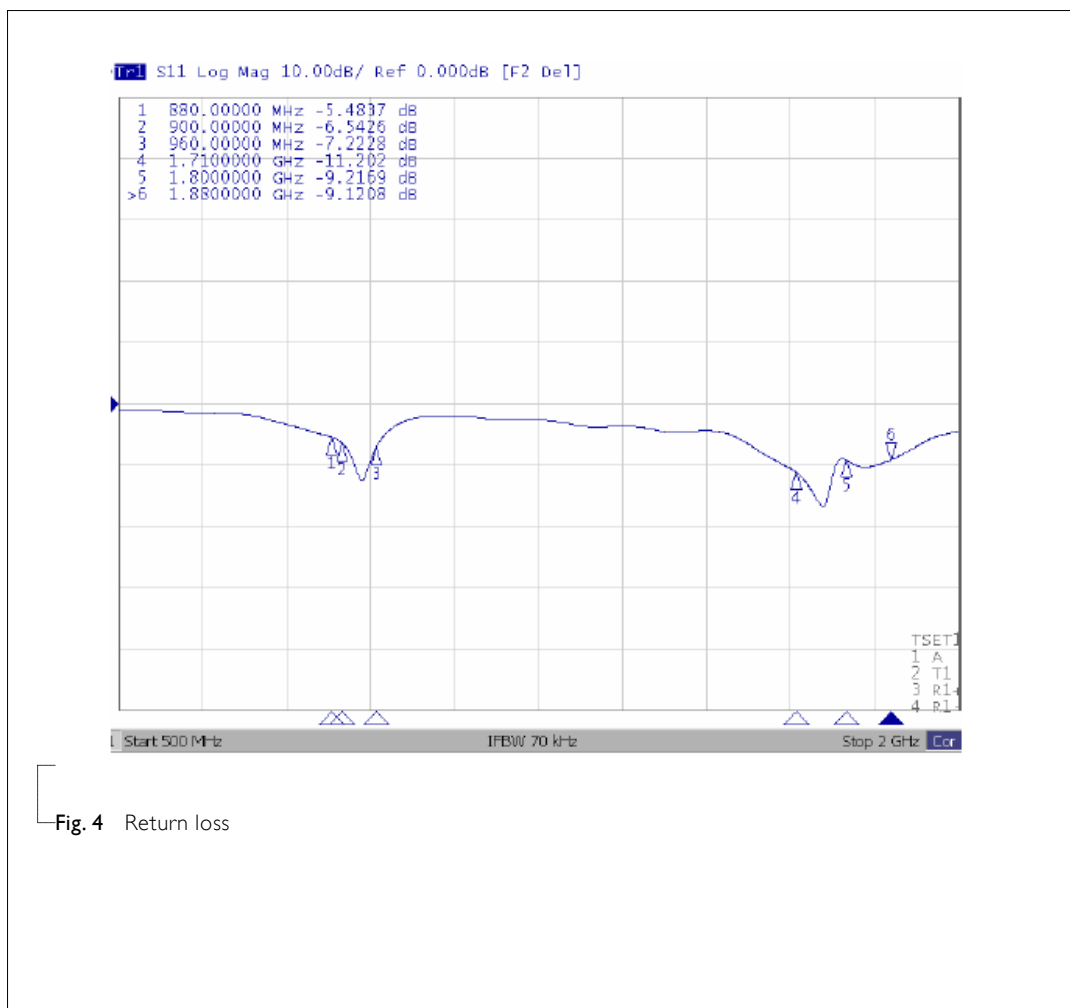
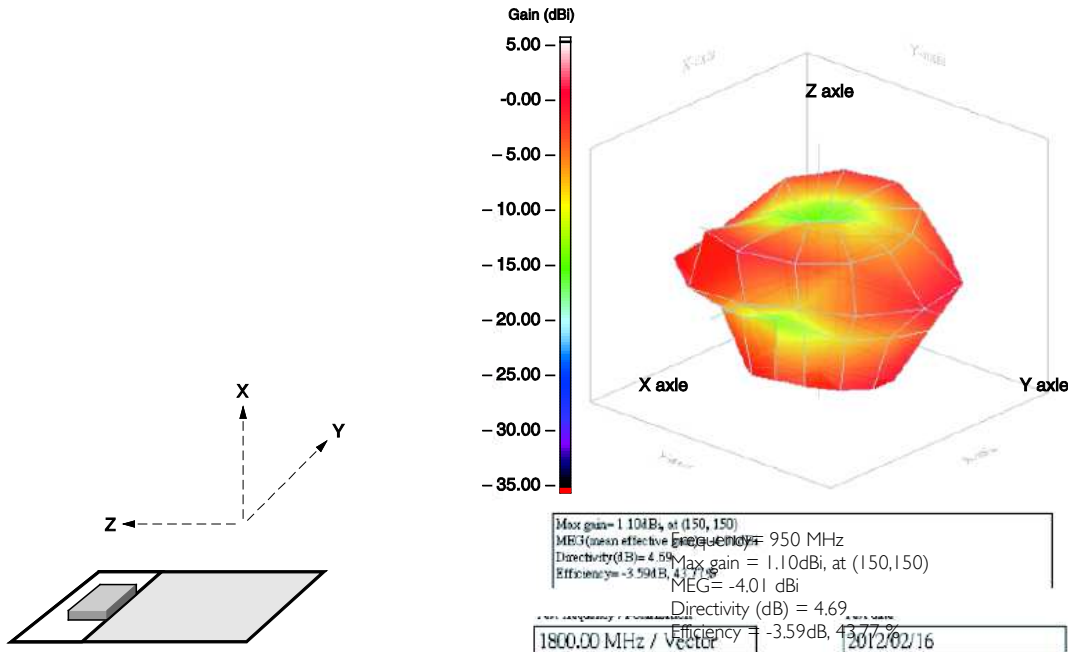


Fig. 4 Return loss



Evaluation board and XYZ direction

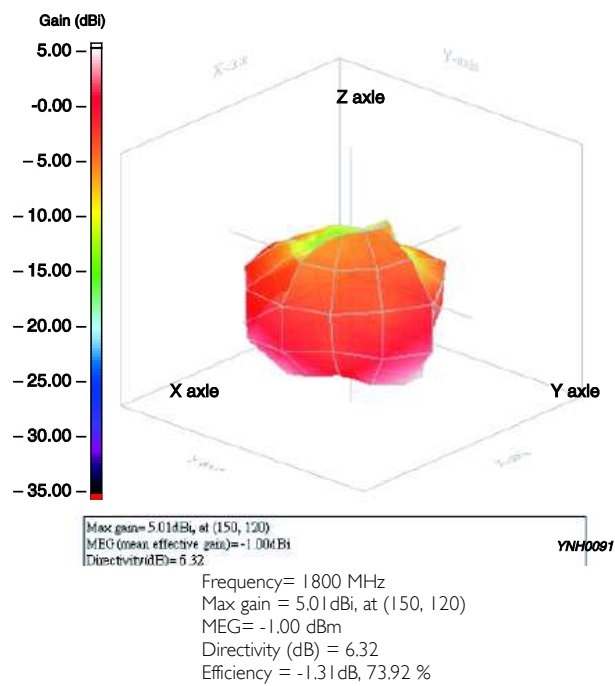
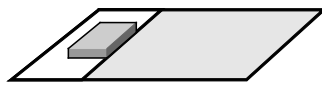


Fig. 5 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 1	Feb. 05, 2013	-	- Dimensions update
Version 0	Nov. 15, 2012	-	- New data sheet for SMD type antenna, 900 / 1800MHz application, 2112 series