

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 ANT8010LL05R1516A

GPS/GALILEO & GLONASS

8010 Series



YAGEO Phícomp



FEATURES

- Support GPS/Galileo & GLONASS system
- High radiation efficiency
- Reflow process compatible (SMD only)
- RoHS compliant

APPLICATIONS

- Tablet (for chip)
- Navigation device
- Telematics box
- Fleet management

ORDERING INFORMATION

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

PART NUMBER

ANT 8010 L L05 R 1516A

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

(I) PRODUCT

ANT = Antenna

(2) SIZE

 $8010 = 8.0 \times 1.0 \text{ mm}$

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L05

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

1516 = 1.575/1.602 GHz

PHYCOMP CTC

CAN4311781051563K

12NC

431178105156



WIRELESS COMPONENTS

Ceramic Chip Antenna

<u>SPECIFICATION</u>

Table I

DESCRIPTION	VALUE
Centre Frequency	1.575G/1.602GHz
Bandwidth	80 MHz (Typ.)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	GPS/Galileo: 1.53 dBi (Typ.)
	Glonass: 1.69 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

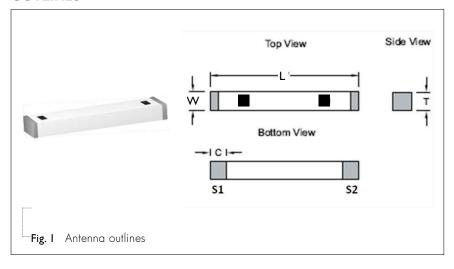
Table 2 Machinical Dimension

	DIMENSION
L (mm)	8.0 ±0.20
W (mm)	1.0 ±0.20
T (mm)	1.0 ±0.20
C (mm)	0.9 ± 0.15

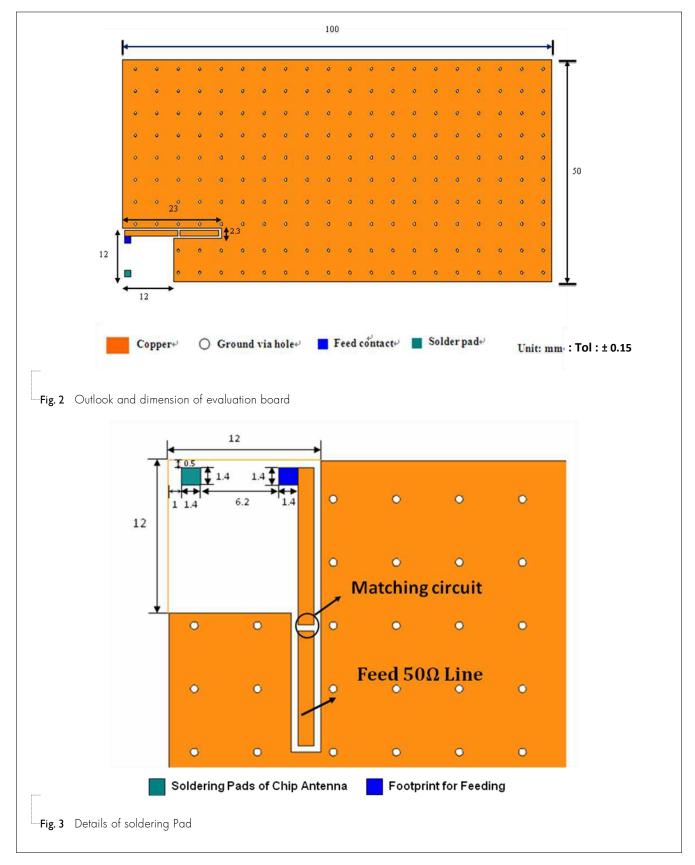
Table 3 Termination configuration

TERMINAL NAME	FUNCTION
SI	Feeding or
31	Soldering Point
S2	Feeding or
32	Soldering Point

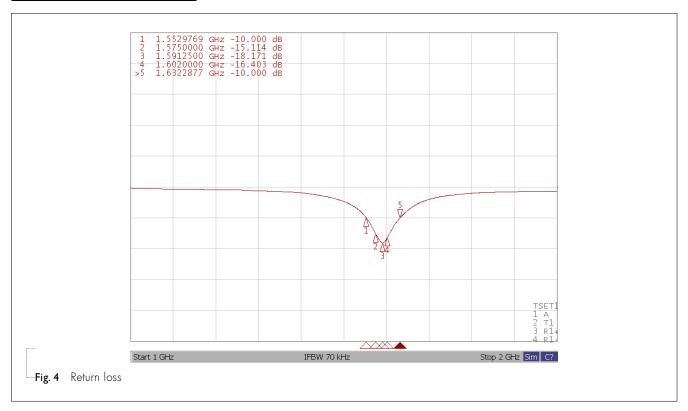
OUTLINES

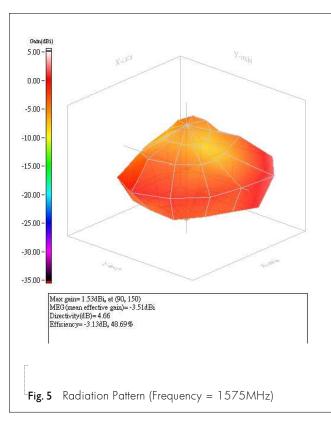


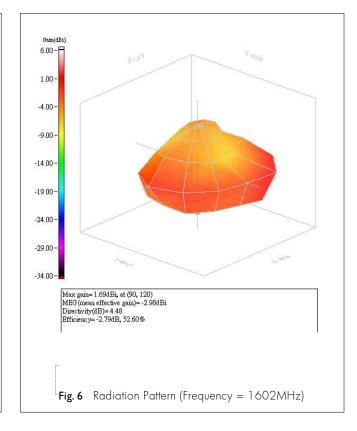
REFERENCE DESIGN OF EVALUATION BOARD



ELECTRICAL PERFORMANCES







WIRELESS COMPONENTS Ceramic Chip Antenna

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	APr. 25, 2014	ļ -	- New data sheet for Ceramic Chip Antenna, 1.575 GHz & 1.602 GHz, size 8.0 x 1.0 mm
Version 1	Mar.12, 2018	} -	- Correct L&W spec