

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT8010LL05R1575A

GPS

8010 Series



FEATURES

- Compact size
- 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 I575A**

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

(1) PRODUCT

ANT = Antenna

(2) SIZE

8010 = 8.0 × 1.0 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L05

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

I575 = 1.575 GHz

PHYCOMP CTC

CAN4311781051583K

I2NC

431178105158

SPECIFICATION

Table I

DESCRIPTION	VALUE
Centre Frequency	1.575 GHz
Bandwidth	50 MHz (Typ.)
Return Loss	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.67 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.

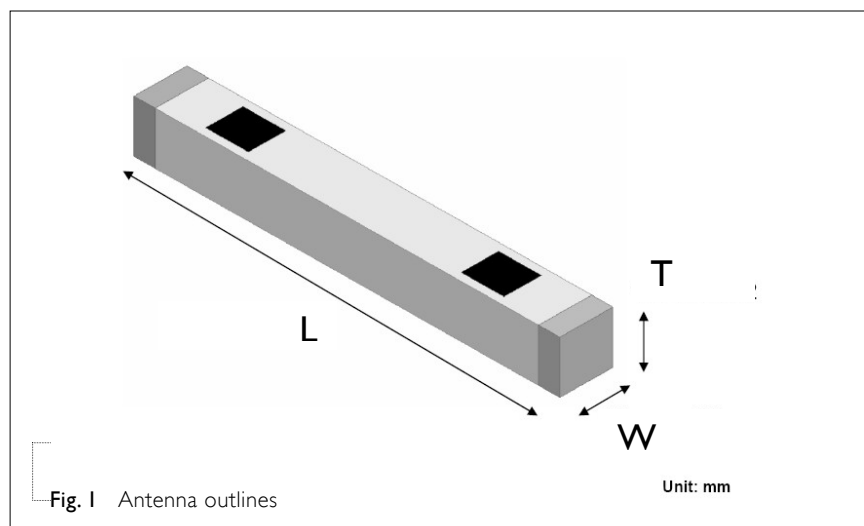
NOTE

I. The specification is defined on Yageo evaluation board

DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	8.0 $\pm$ 0.20
W (mm)	1.0 $\pm$ 0.20
T (mm)	1.0 $\pm$ 0.20

OUTLINES

REFERENCE DESIGN OF EVALUATION BOARD

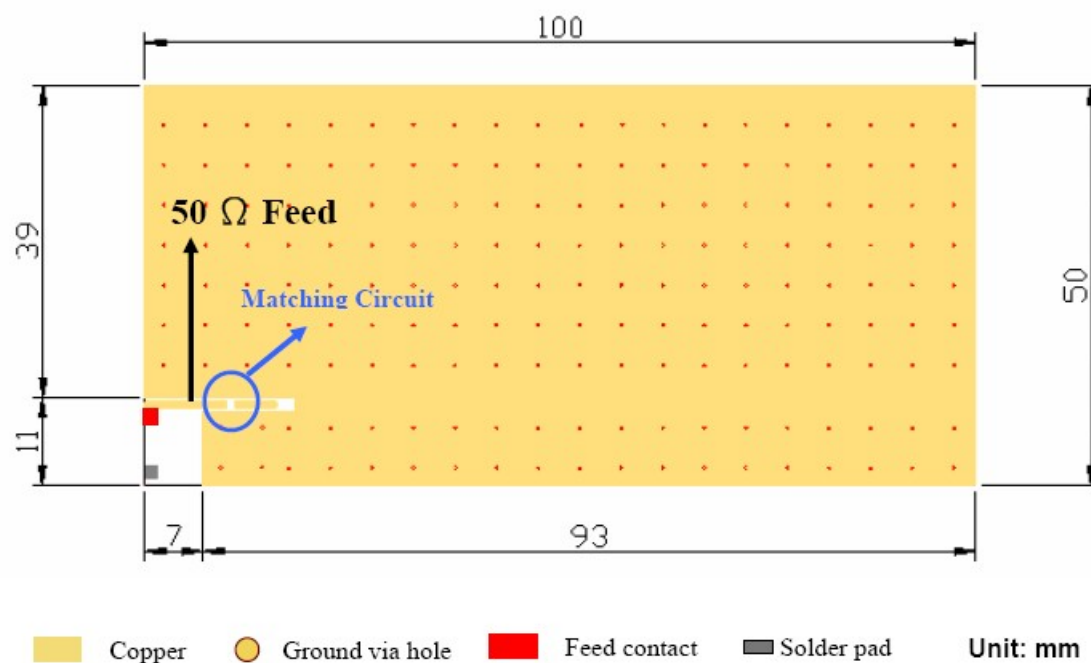


Fig. 2 Outlook and dimension of evaluation board

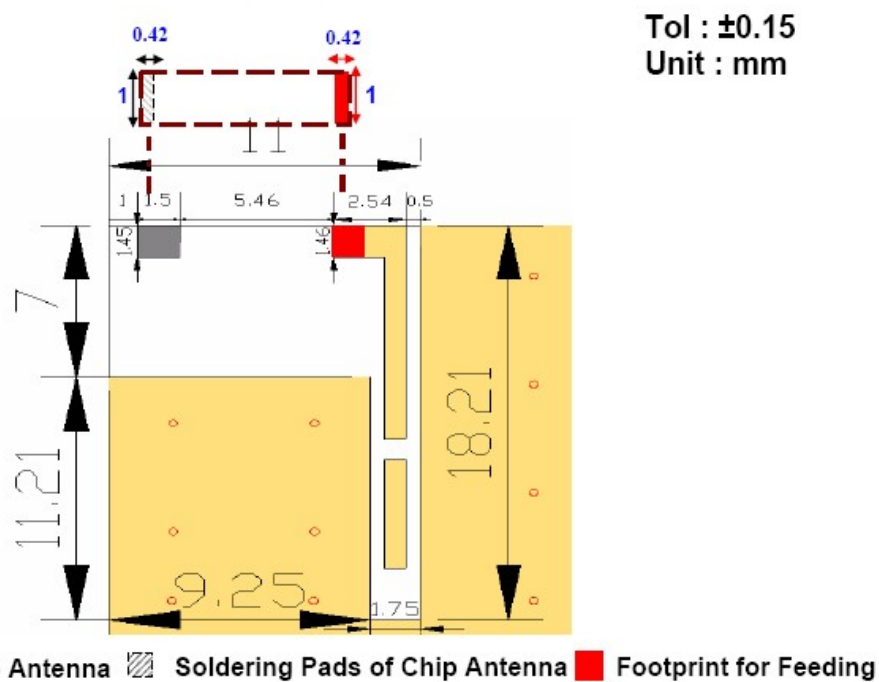


Fig. 3 Details of soldering Pad

ELECTRICAL PERFORMANCES

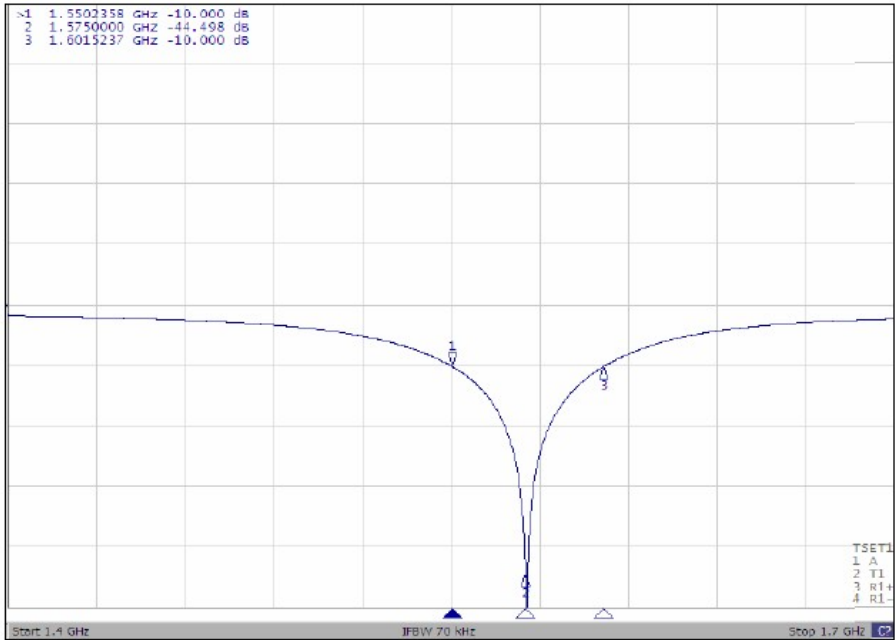


Fig. 4 Return loss

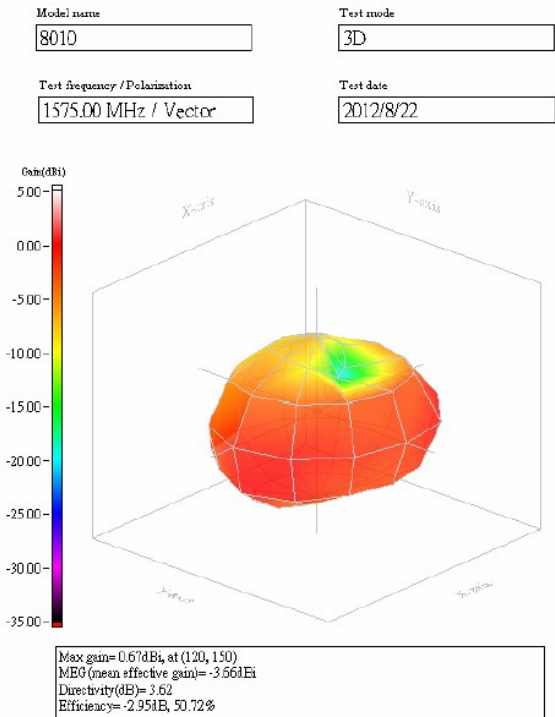


Fig. 5 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Apr. 22, 2013	-	- New data sheet for Ceramic Chip Antenna, 1.575 GHz, size 8.0 × 1.0 mm

Mouser Electronics

Authorized Distributor

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Yageo:

[ANT8010LL05R1516A](#)