

# 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 1575A**  
 (1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

ANT = Antenna

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**(2) SIZE**

8010 = 8,0 x 1,0 mm

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**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

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**(4) SERIAL NO.**

L05

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**(5) PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

1575 = 1.575 GHz

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**PHYCOMP CTC**

CAN4311781051583K

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**I2NC**

431178105158

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**SPECIFICATION**

Table 1

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**

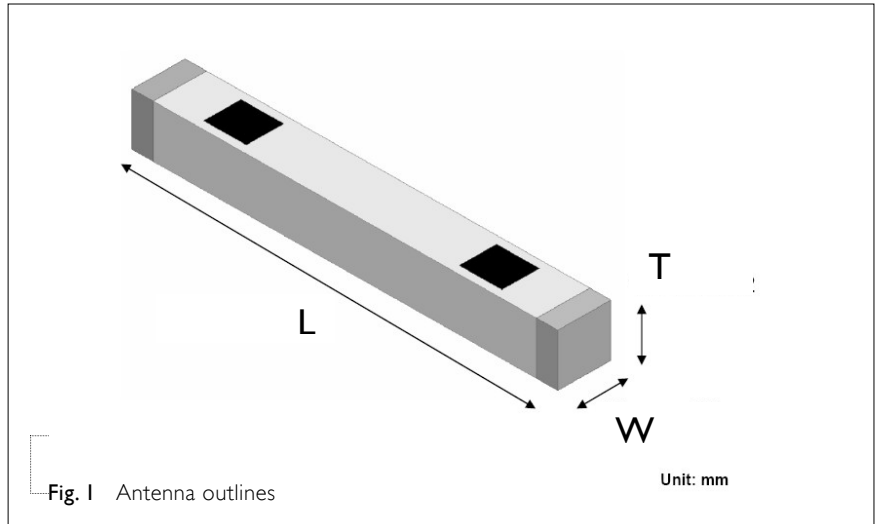
I. The specification is defined on Yageo evaluation board

**DIMENSIONS**

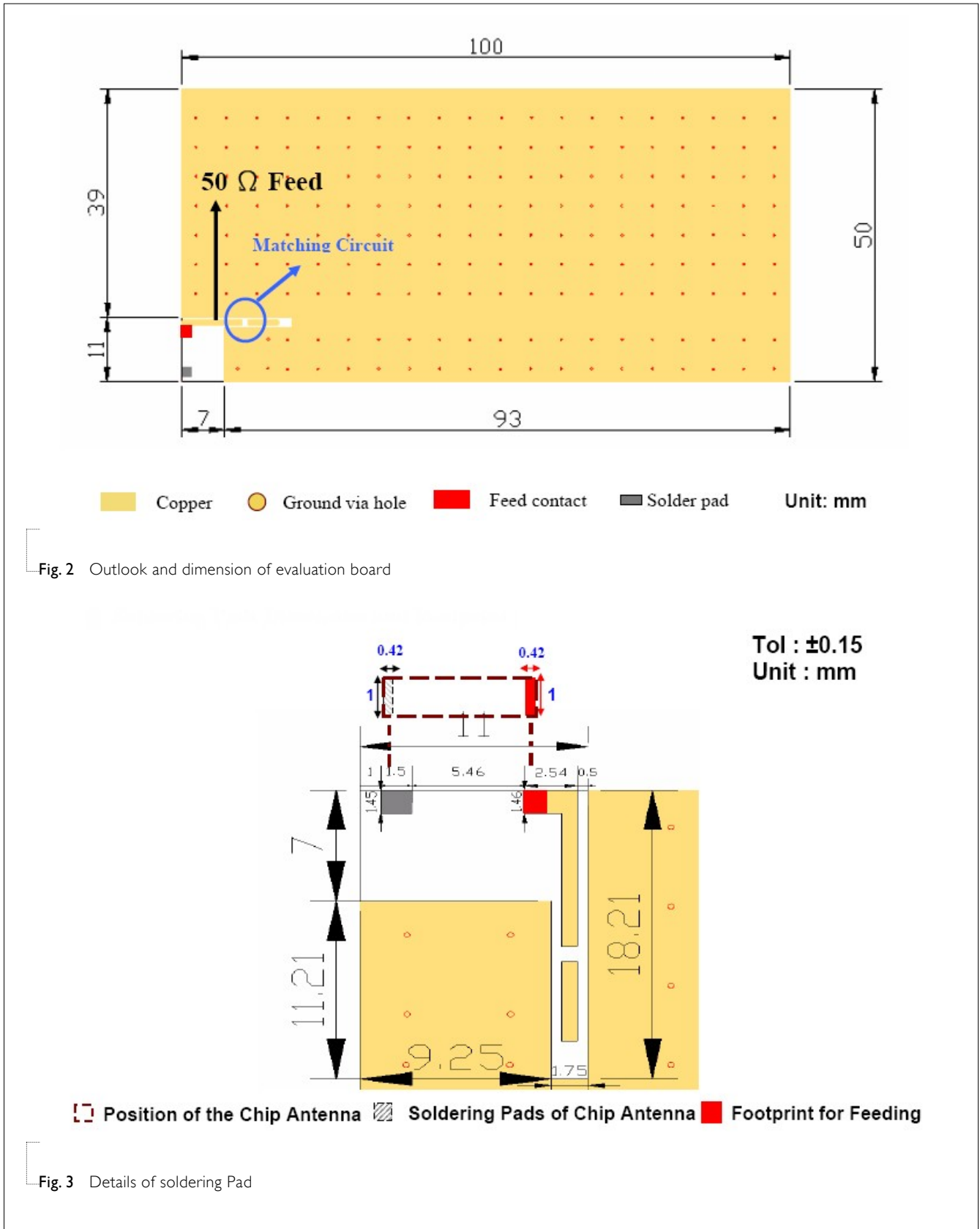
Table 2 Machinical Dimension

	DIMENSION
L (mm)	8.0 ±0.20
W (mm)	1.0 ±0.20
T (mm)	1.0 ±0.20

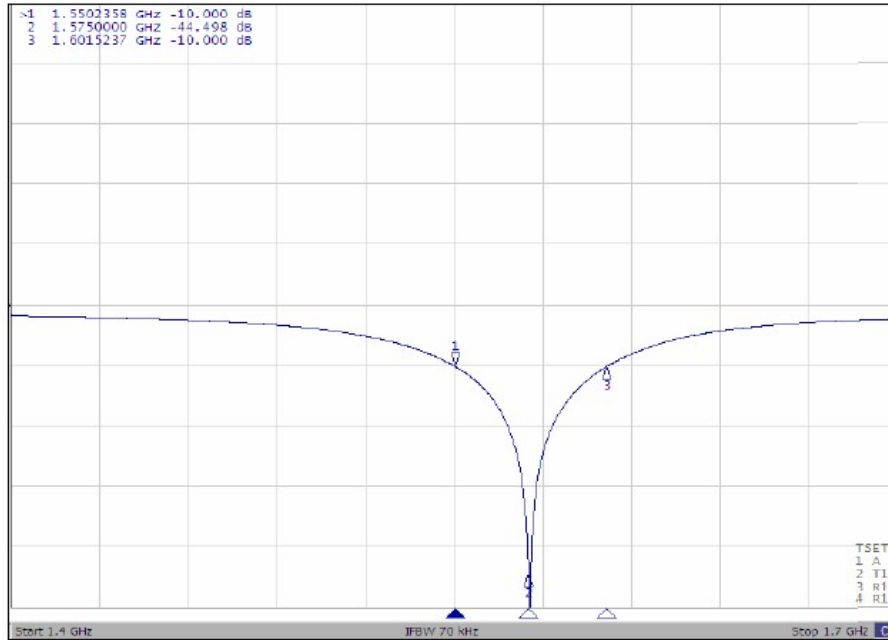
**OUTLINES**



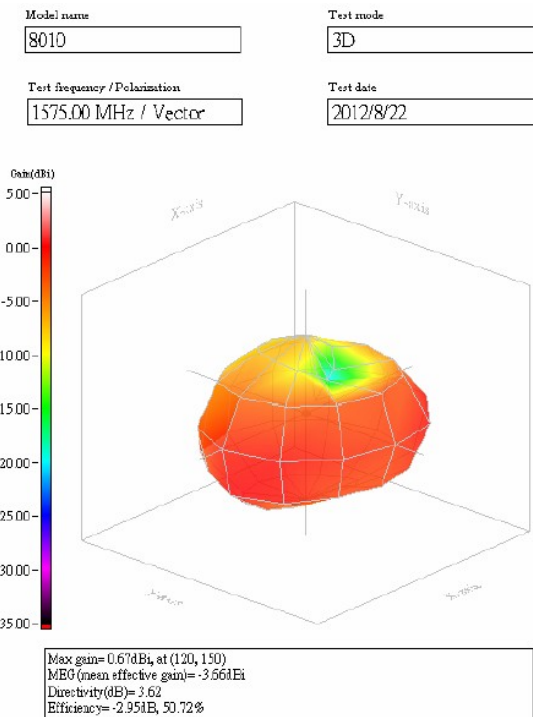
**REFERENCE DESIGN OF EVALUATION BOARD**



**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 x 1.0 mm