

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT6230LL01R1575A

GPS

6230 Series



FEATURES

- Compact size
- High radiation efficiency
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Tablet
- 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 6230 L L01 R 1575A

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

(1) PRODUCT

ANT = Antenna

(2) SIZE

6230 = 6.2 × 3.0 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L01

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

1575 = 1.575GHz

PHYCOMP CTC

CAN4311763011582K

I2NC

431176301158

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-------------------------------|---|
| Centre Frequency | 1.575GHz |
| Bandwidth | 55 MHz(Typ.) |
| Return Loss | 10 dB (min) |
| Polarization | Linear |
| Azimuth Beamwidth | Omni-directional |
| Peak Gain | 2.52 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) | 6.15 ±0.25 |
| W (mm) | 3.00 ±0.25 |
| T (mm) | 1.25 ±0.15 |
| A (mm) | 0.50 ±0.20 |

OUTLINES

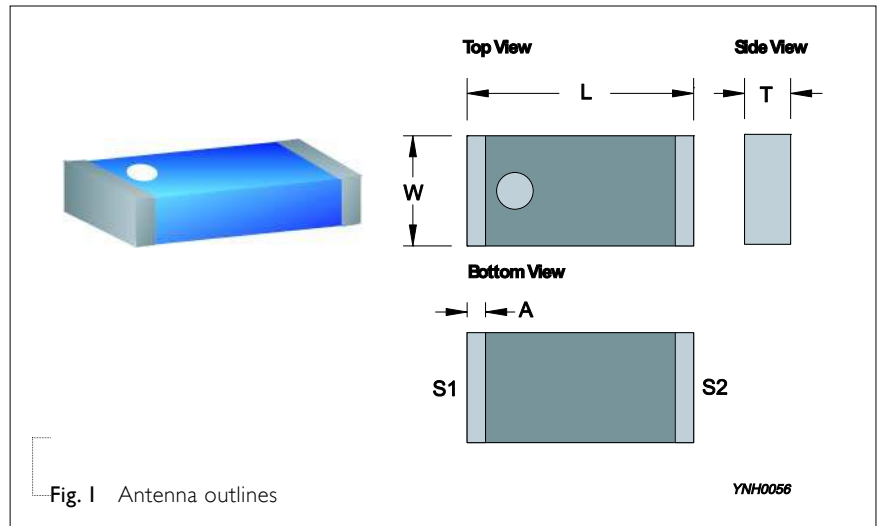


Table 3 Termination configuration

| TERMINAL NAME | FUNCTION |
|---------------|-----------------|
| S1 | Feeding Point |
| S2 | Soldering Point |

REFERENCE DESIGN OF EVALUATION BOARD

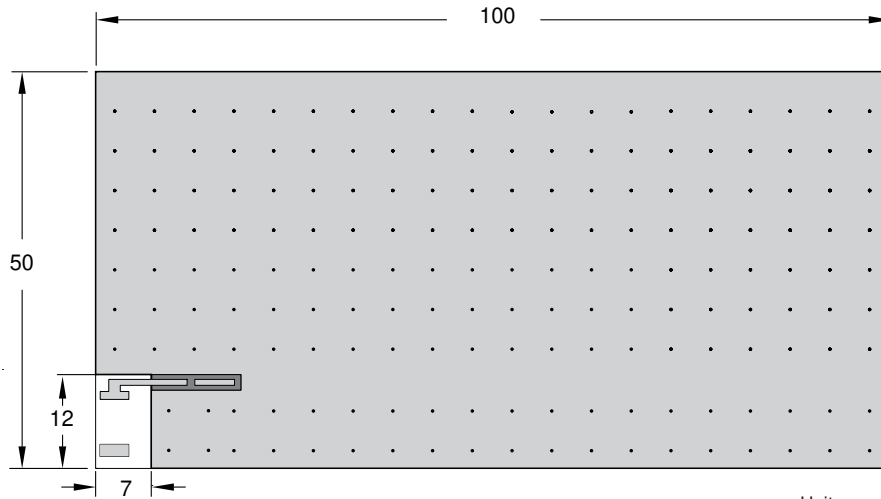
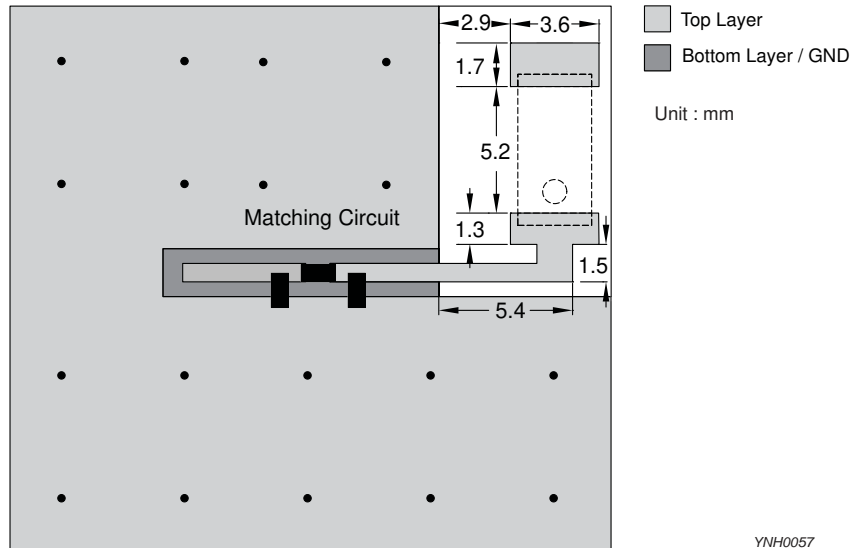


Fig. 3 Outlook and dimension of evaluation board

Unit : mm



Unit : mm

YNH0057

Fig. 4 Details of soldering Pad

ELECTRICAL PERFORMANCES

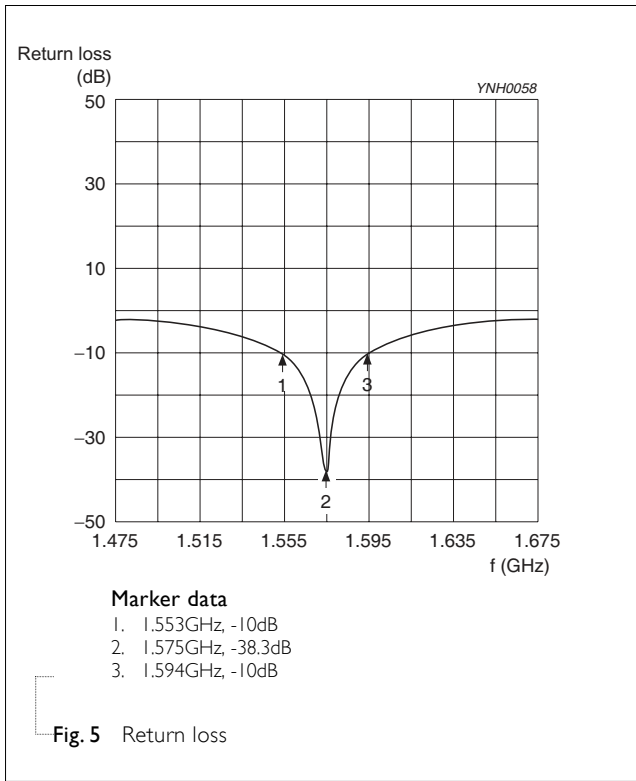


Fig. 5 Return loss

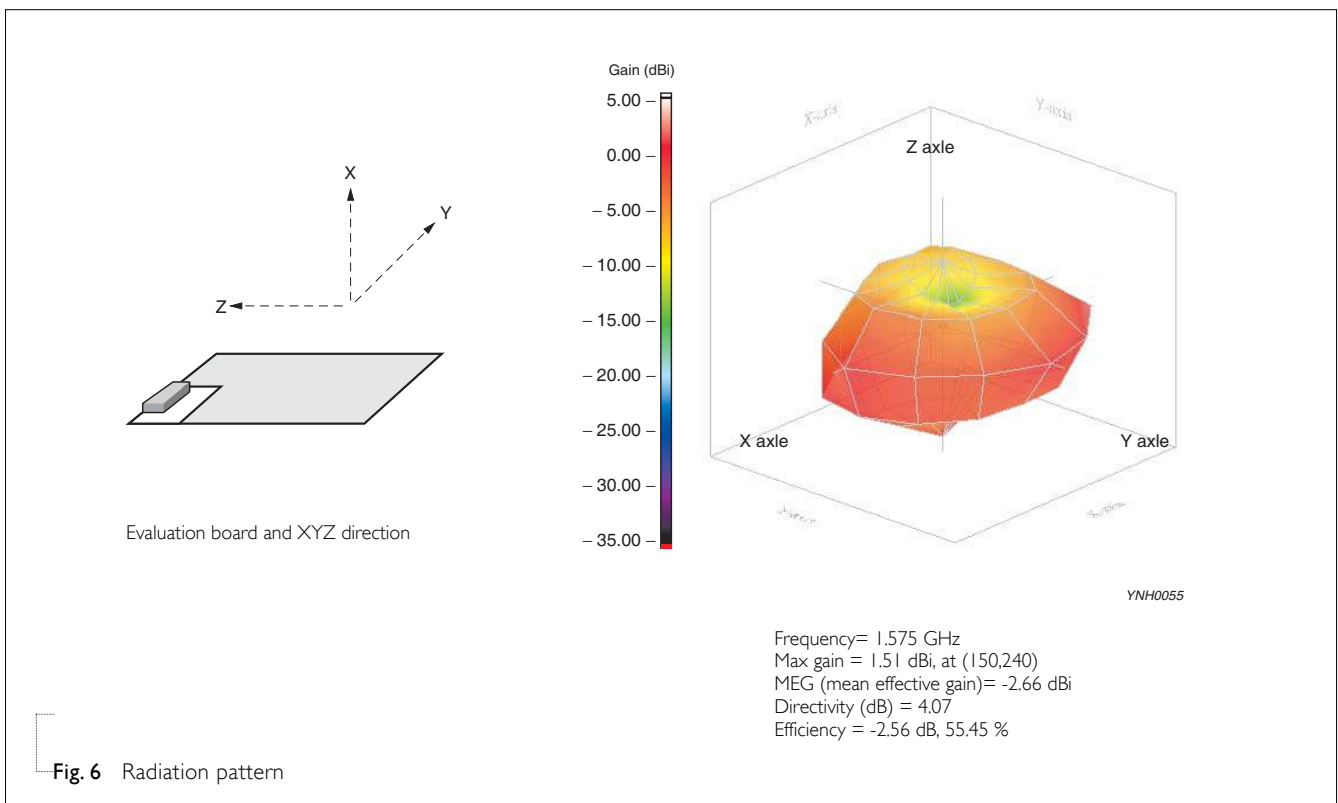


Fig. 6 Radiation pattern

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|--|
| Version 0 | Feb. 05, 2013 | - | - New datasheet for SMD type antenna, 1.575 GHz application, 6230 series |