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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

ANT3216LL15R1575A

GPS

3216 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 3216 L L15 R 1575A
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

3216 = 3,2 × 1,6 mm

(3) ANTENNA TYPE

L,F,A = Chip Antenna

(4) SERIAL NO.

L15

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

1575 = 1,575 GHz

PHYCOMP CTC

CAN4311712151583K

I2NC

431171215158

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-------------------------------|--|
| Centre Frequency | 1.575 GHz |
| Bandwidth | 51 MHz (Typ.) |
| Return Loss | 10 dB min |
| Polarization | Linear |
| Azimuth Beamwidth | Omni-directional |
| Peak Gain | 2.01 dBi (Typ.) |
| Impedance | 50 Ω |
| Operating Temperature | -40~105 degree |
| Maximum Power | 1 W |
| Termination | Ag (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) | 3.20 ±0.10 |
| W (mm) | 1.60 ±0.10 |
| T (mm) | 1.20 ±0.10 |
| A (mm) | 0.80 ±0.15 |
| B (mm) | 1.60 ±0.20 |

OUTLINES

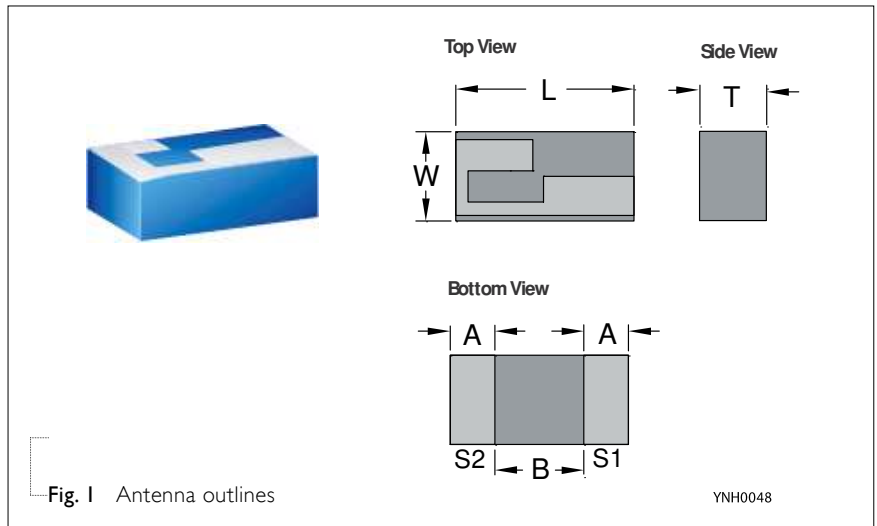


Fig. I Antenna outlines

YNH0048

Table 3 Termination configuration

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

REFERENCE DESIGN OF EVALUATION BOARD

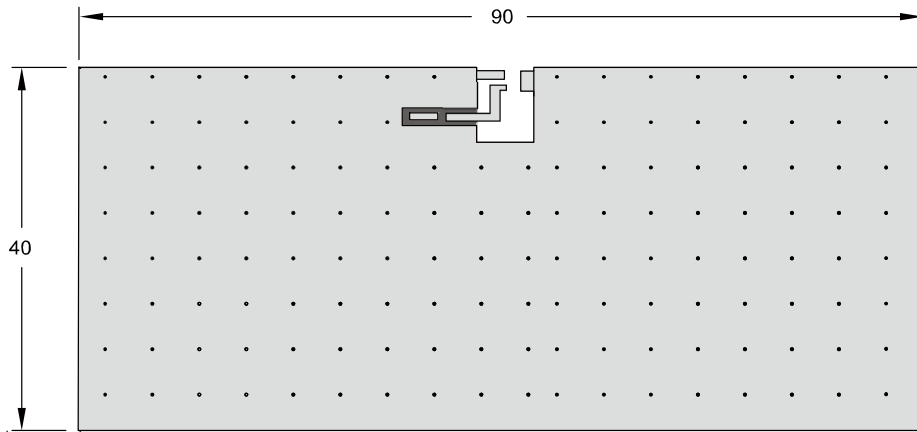


Fig. 3 Outlook and dimension of evaluation board

Unit : mm

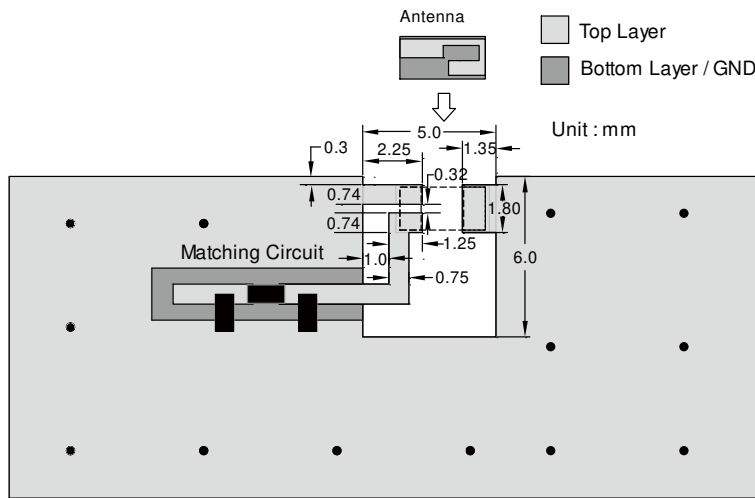
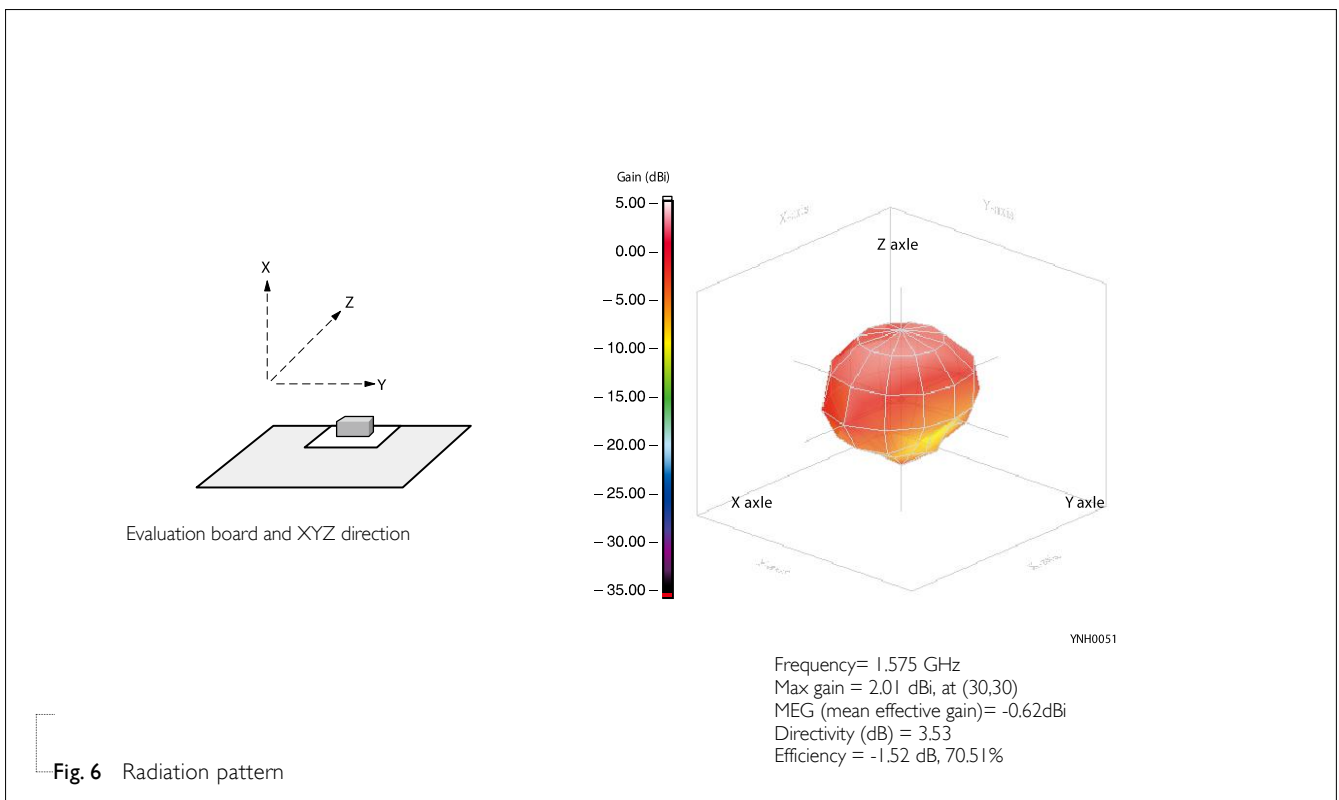
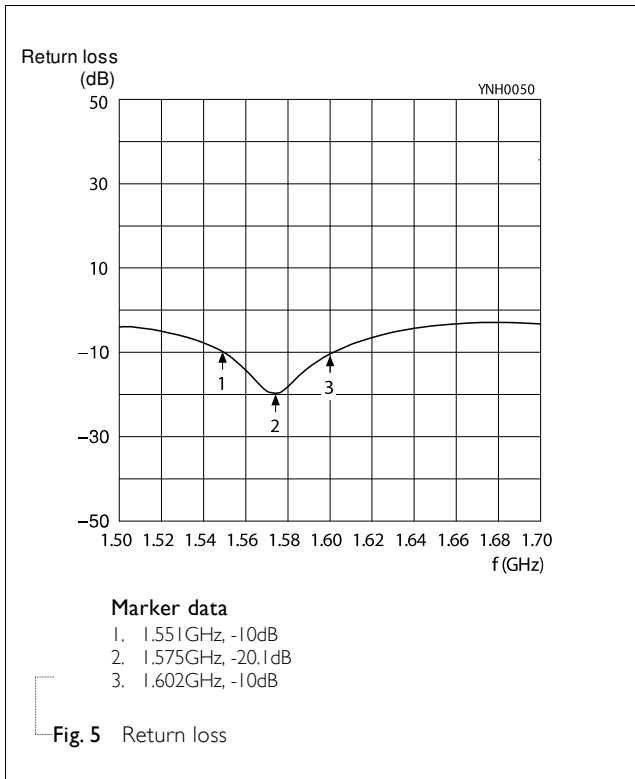


Fig. 4 Details of soldering pad

YNH0049_1

ELECTRICAL PERFORMANCES



REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|--|
| Version 0 | Feb. 07, 2017 | - | - New data sheet for SMD type antenna, 1.575GHz application, 3216 series PIFA mode |