

DATA SHEET

WIRELESS COMPONENTS

Ceramic Chip Antenna

ANT3216A063R2455A

2.4 AND 5GHZ

3216 Series



FEATURES

- Compact size
- Omni-directional Radiation
- Tape & reel automatic mounting
- Dual-band design
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- 2.4&5GHz WiFi device
- ISM band equipment

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 A 063 R 2455A
(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.

063

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2455 = 2.4/5GHz

PHYCOMP CTC

CAN431 I2I2632523K

I2NC

431 I2I263252

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Centre Frequency	2.45 G / 5.5 GHz
Bandwidth	90 / 700 MHz(Typ.)
Return Loos	10 dB min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.59 / 2.23 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)	3.05 ± 0.10
W (mm)	1.55 ± 0.10
T (mm)	0.55 ± 0.10
A (mm)	0.40 ± 0.10

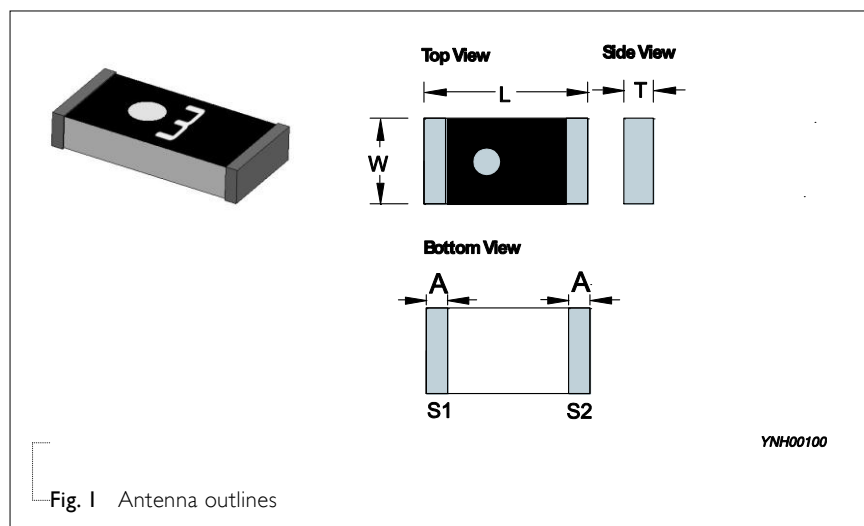
OUTLINES

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	GND

REFERENCE DESIGN OF EVALUATION BOARD

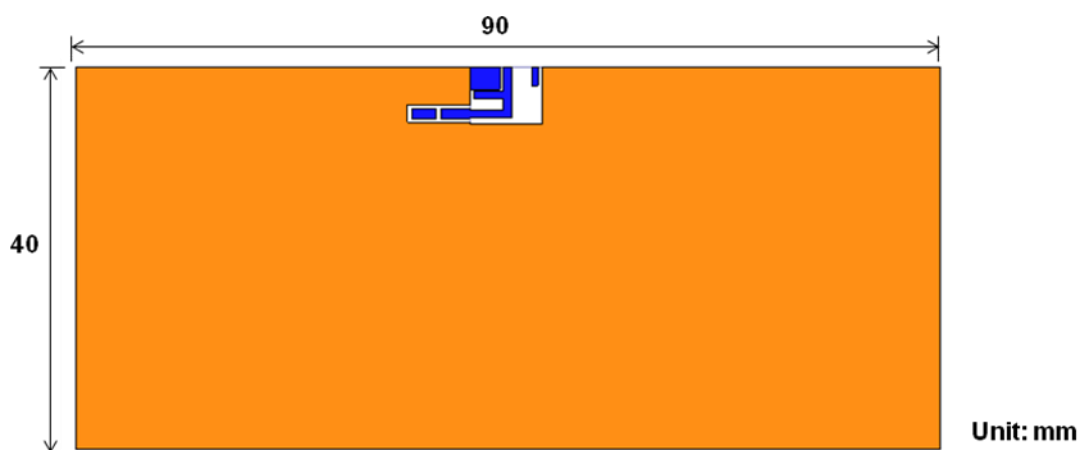


Fig. 2 Outlook and dimension of evaluation board

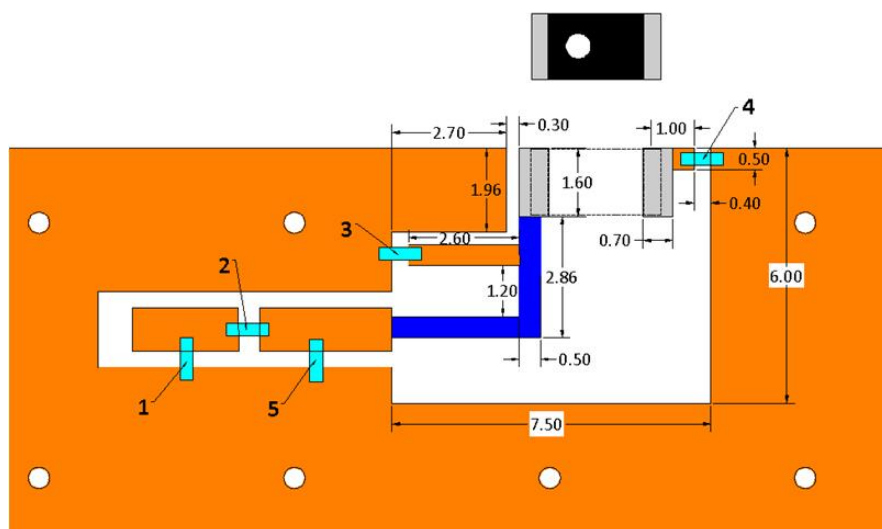


Fig. 3 Details of soldering Pad

ELECTRICAL PERFORMANCES

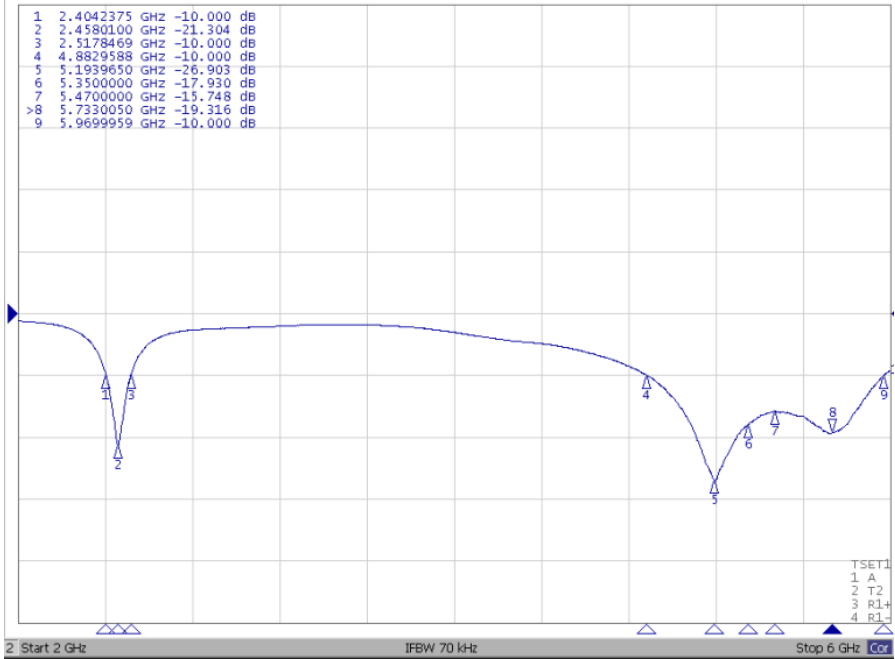
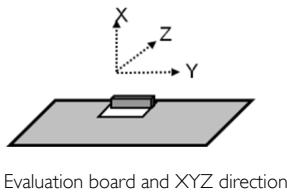


Fig. 4 Return loss



Evaluation board and XYZ direction

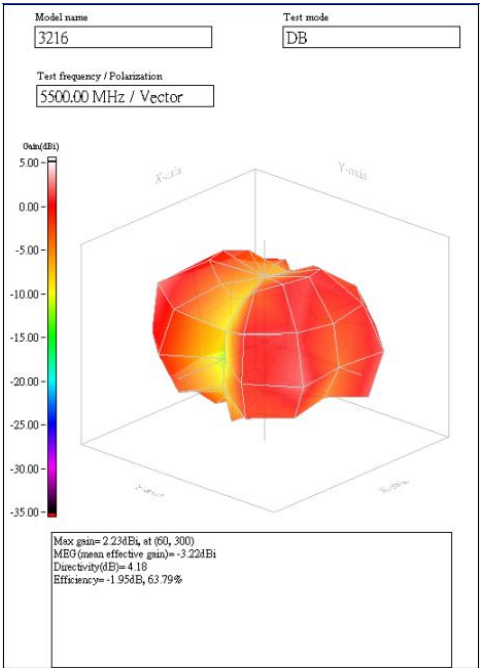
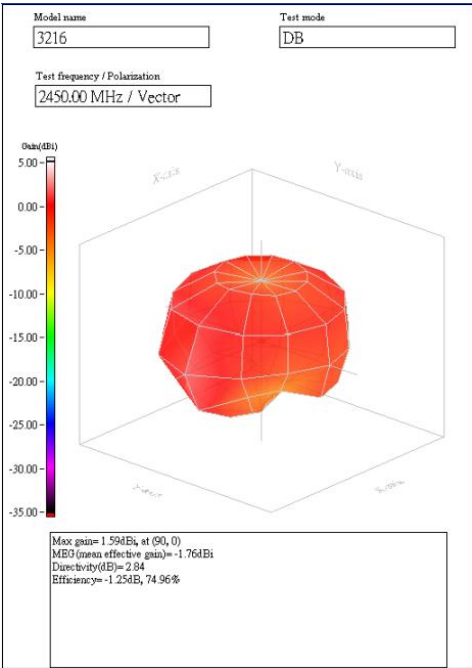


Fig. 5 Radiation pattern

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Nov. 04, 2014	-	- New data sheet for SMD type antenna, 2.4 and 5GHz application, 3216 series PIFA mode