3.2 x 1.6 x 0.5 (mm) WiFi/Bluetooth Ceramic Chip Antenna

(AA055U) Engineering Specification

1. Product Number

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2. Features

*Stable and reliable in performances
*Low profile, compact size
*RoHS 2.0 compliance
*SMT processes compatible

3. Applications

*ISM 2.4 GHz applications
*ZigBee/BLE applications
*Bluetooth earphone systems
*Hand-held devices when WiFi / Bluetooth functions are needed, e.g., Smart phones
*IEEE802.11 b/g/n
*Wireless PCMCIA cards or USB dongles

4. Description

Unictron's AA055U ceramic chip antenna is designed for ISM 2.4GHz applications, covering frequencies 2400~2500MHz. Fabricated with proprietary design and processes, AA055U shows excellent performance and is fully compatible with SMT processes which can decrease the assembly cost and improve device's quality and consistency.

Prepared by : Jane	Designed by :James	Checked by : Mike	Approved by : Herbert

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5-2. Electrical Specifications (Evaluation Board Dimensions: 80 x 40 mm^2)

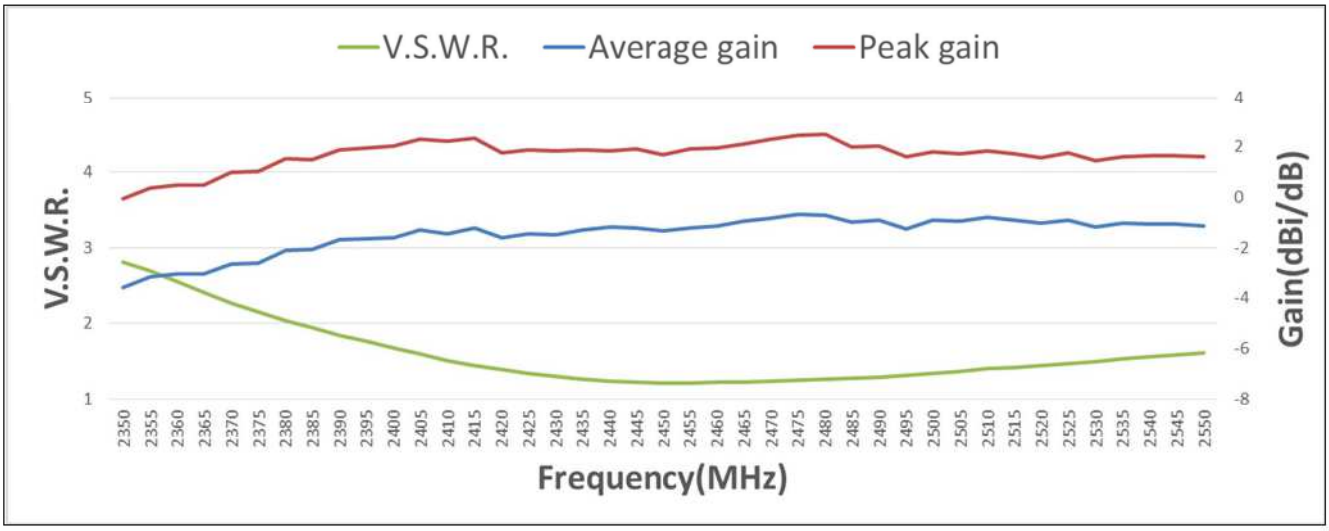
5-2-1. Electrical Table

Characteristics		Specifications	Unit
Outline Dimensions		3.2 x 1.6 x 0.5	mm
Ground Plane Dimensions		80 x 40	mm
Working Frequency		2400~2500	MHz
VSWR (@ center frequency)*		2 Max.	
Characteristic Impedance		50	Ω
Polarization		Linear Polarization	
Peak Gain	(@2442 MHz)	1.8 (typical**)	dBi
Efficiency		76.3 (typical**)	%

*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

**A typical value is for reference only, not guaranteed.

5-2-2. Frequency vs. V.S.W.R. and Total Radiation Gain



7. 3D Radiation Gain Pattern (with 80 x 40 mm² Evaluation Board)

3D Radiation Gain Pattern @ 2442 MHz (unit: dBi)