Product Name: WiFi/Bluetooth Chip Antenna – CW201

Part Number: H2U34C1H1B0100

Features:

- Supporting WiFi/Bluetooth, covering 2400 to 2484 MHz
- Surface Mount
- Dimensions: 2.0 x 1.2 x 0.6 mm
- High performance, small size.
- RoHS & REACH Compliant

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

WiFi/Bluetooth Chip Antenna

MODEL: CW201

Version: A

I. Specifications:

Items	Specifications
Frequencies (MHz)	2400~2484
Efficiency (%)	59.2
Average Gain (dB)	-2.3
Peak Gain (dBi)	1.9
Test Condition	40 x 20 mm² (Evaluation board)
Impedance (Ω)	50
Polarization	Linear Polarization

Mechanical Specifications	
Dimensions (mm)	2.0(L) x 1.2 (W) x 0.6 (H)
Material	Ceramic
Termination	Ag (environmental Pb free)
Environmental Conditions	
Operation Temperature (ºC)	-40 ~ +85
Storage Temperature (ºC)	-5 ~ +40
Relative Humidity	10 ~ 70 %

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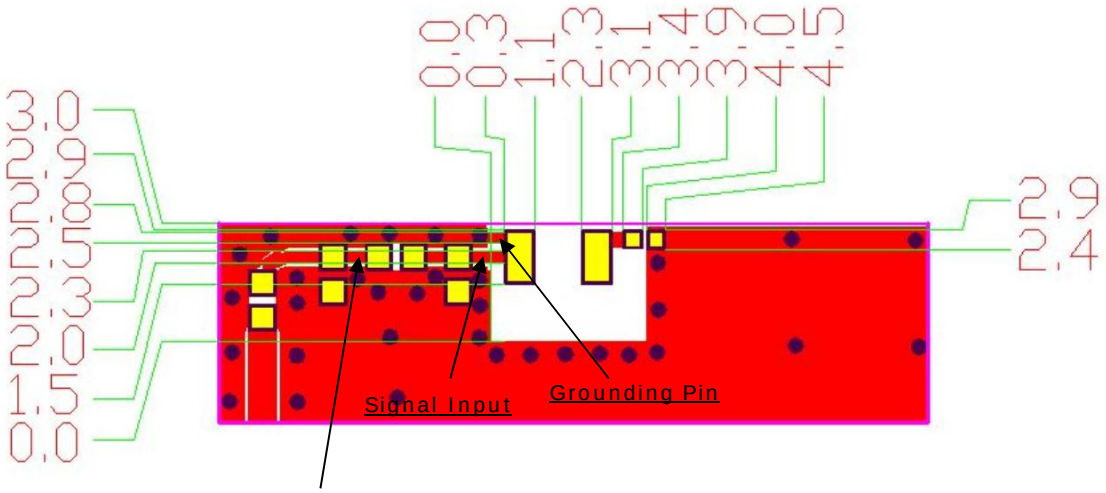
II. Layout Guide:

Solder Land Pattern:

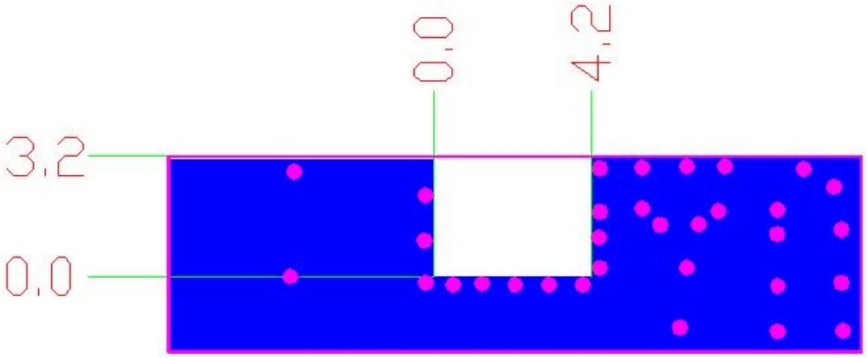
The solder land pattern (gold marking areas) is shown below. Recommendation on matching circuit will be provided according to customer's installation conditions.

Top View



Transmission Line with 50Ω Impedance Characteristic

Bottom View



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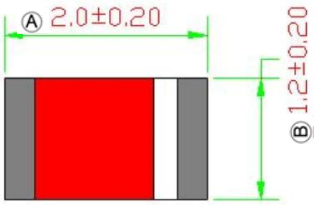
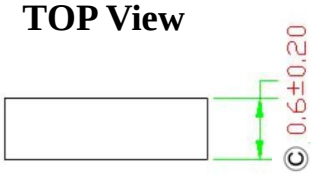
III. Mechanical Dimensions:

a) Antenna Dimensions



TOP View

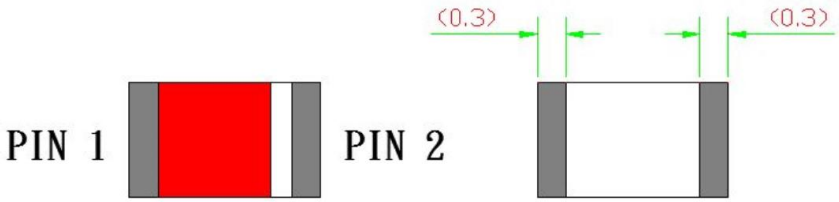
Bottom View



Side View

Unit: mm

b) PIN Definition



Unit: mm

PIN	1	2
Soldering Pad	Signal Input	Tuning/Signal Output

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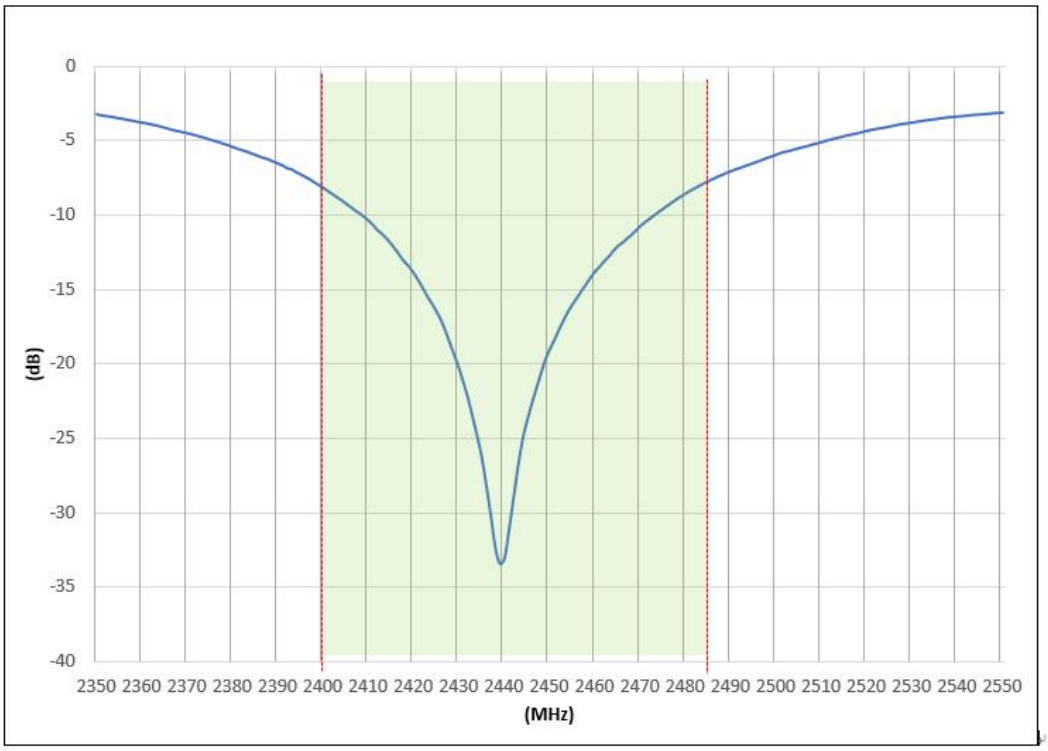
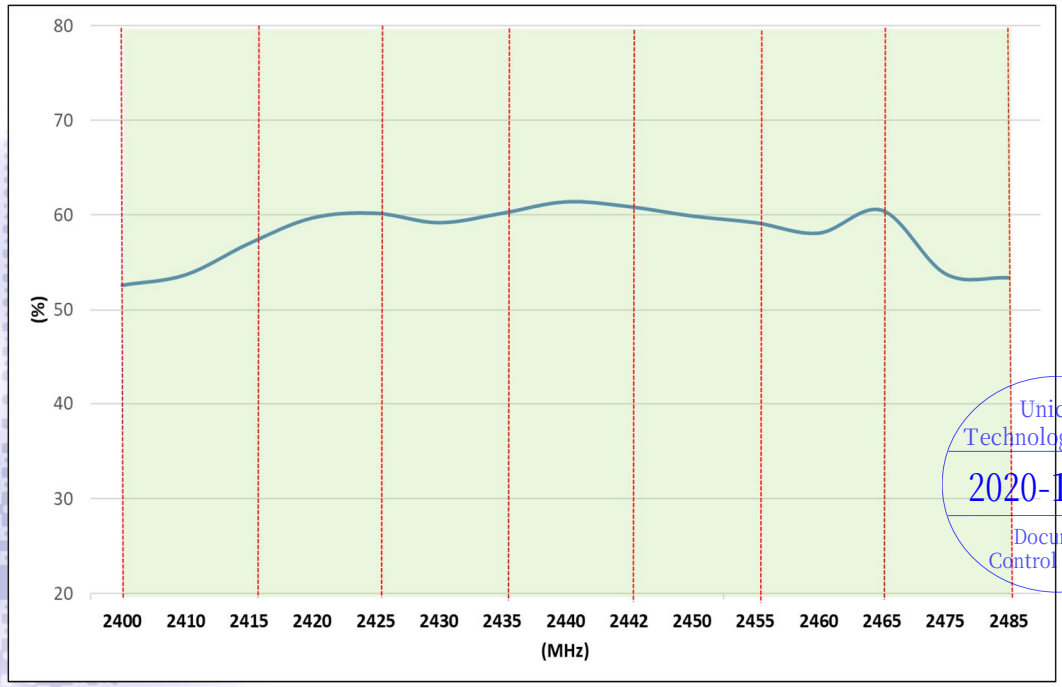
IV. Properties:

a) Return loss (dB)



b) Efficiency (%)



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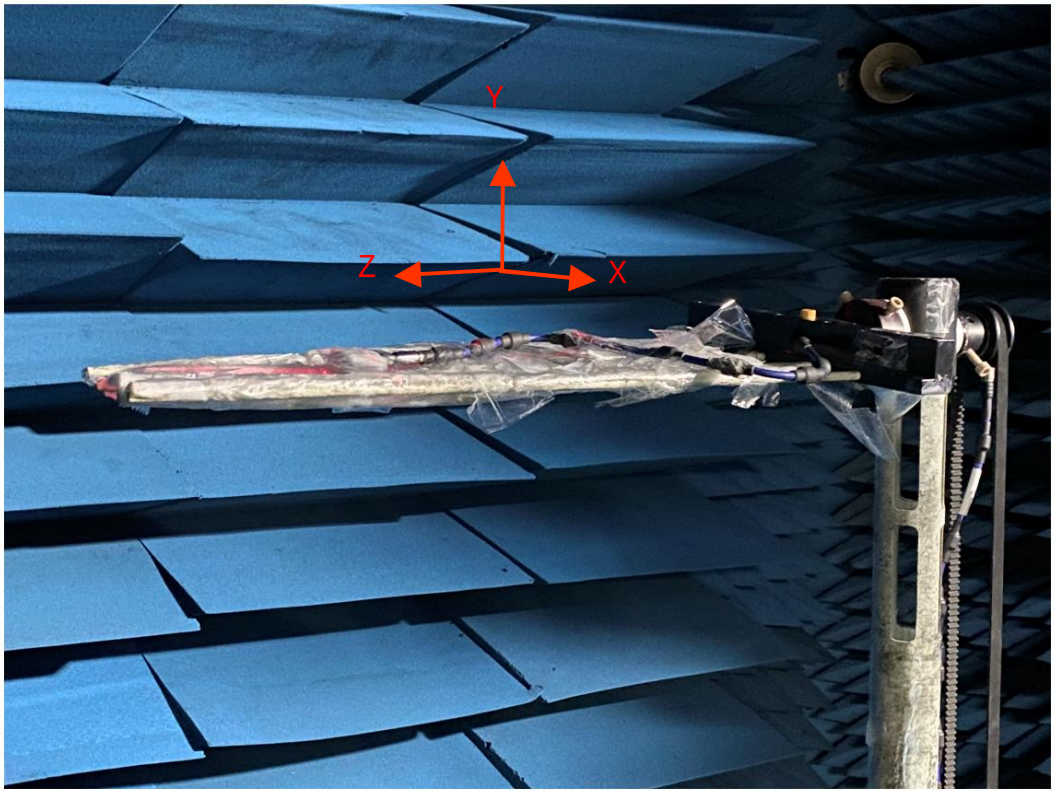
V. Antenna Radiation Pattern Measurement:

The antenna radiation patterns are measured in Unictron's 3D Anechoic Chamber. The measurement setup is as show below.



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