

Cub 2.4GHz SMD Antenna

Part No. GA123416BL02



Product Specification

➤ Applications

- Smart phone
- Tablets
- Laptops
- Wireless dongles
- Wireless modules
- Sensors
- Automotive

➤ Features

- Designed for 2.4 GHz applications: Bluetooth, Wi-Fi (802.11b/g), ZigBee, Wimax(2.3GHz and 2.5GHz) and etc.
- High efficiency (76%)
- Linear Polarization
- Omni- Directional (*PCB dimension dependent*)
- Minimum PCB clearance
- Flexible placement on PCB edge
- SMD mounting
- Low Profile, miniature and light weight
- Tape and reel packaging
- RoHS Compliance

➤ Customer Services (Optional)

- EM Antenna Simulation for optimum placement of antenna on PCB.
- Lump Elements Matching for optimum antenna performance.
- Anechoic Chamber Measurement for antenna performance validation.

Green Antenna Pte Ltd

29 Mandai Estate #07-11, Singapore 729932 Tel: +65-65093801
Email: ga@green-antenna.com Website: www.green-antenna.com

Rev 3.4

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➤ Specification

ELECTRICAL	
Frequency	2.4 ~ 2.5 GHz
S11	< -11dB
VSWR	< 1.8:1
Peak Gain	2.28 dBi
Polarization	Linear
Impedance	50 Ohms
Efficiency	76%
Radiation Pattern	Omni
MECHANICAL	
Dimension	12mm x 3.4mm x 1.6 mm
Weight	0.12g
ENVIROMENTAL	
Temperature Range	-25°C to +80°C
Humidity	65°C 95% RH

Note:

Lump elements matching circuit might require for optimum performance, especially Wimax 2.3GHz band.

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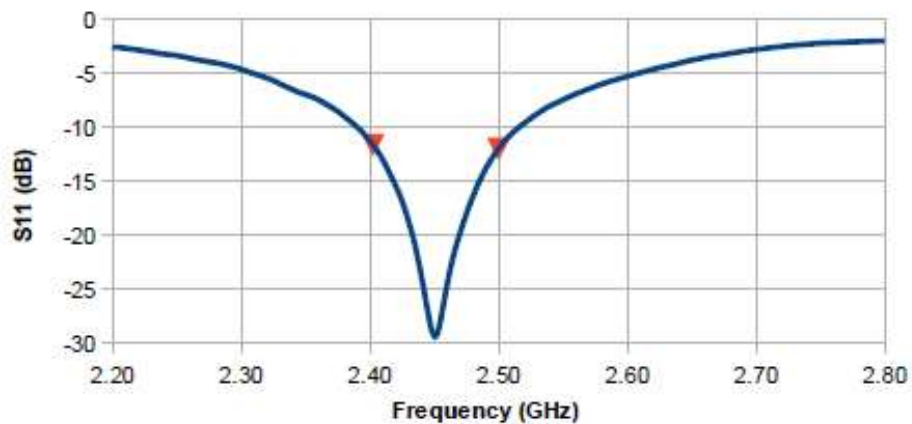


Design & Solution

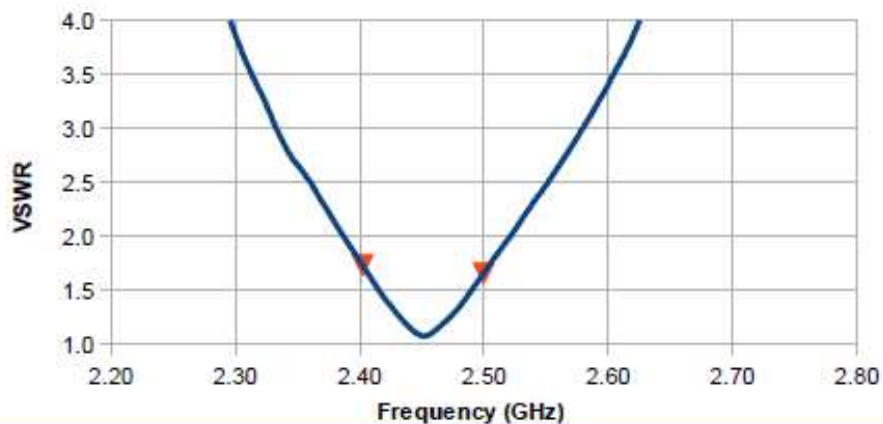
➤ Antenna Performance with CUB_RB6020T1 Reference Board

	Performance	Conditions
Peak Gain	2.28 dBi	All results measured from frequency range 2.4GHz to 2.5GHz on 60 x 20 mm reference board, Part NO.: CUB_RB6020T1 *antenna efficiency without loss of transmission line
Average 3D Gain	-1.19dBi	
*Average Efficiency	76%	
S11	< -11dB	
VSWR	< 1.8:1	

● Return Loss with CUB RB6020T1 Reference Board



● VSWR with CUB RB6020T1 Reference Board



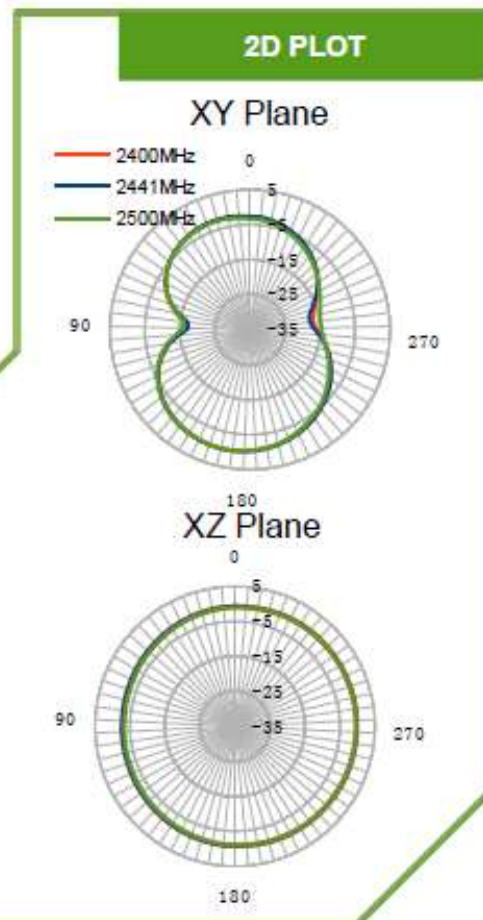
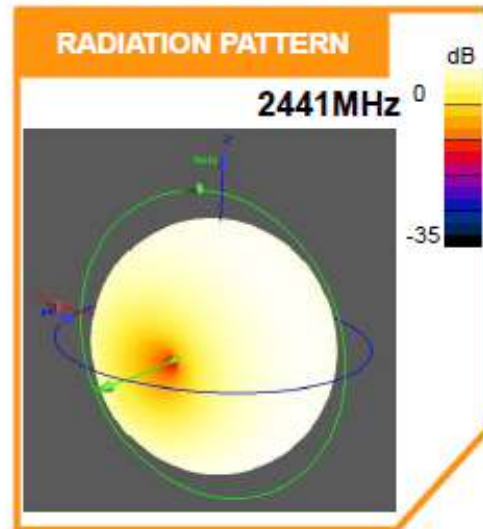
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