Bluetooth Antenna

Applications

This antenna is designed for Bluetooth\WLAN application and it's suitable for cellular phones, PDA, notebook, navigator, and all devices which have Bluetooth\WLAN function.

Features

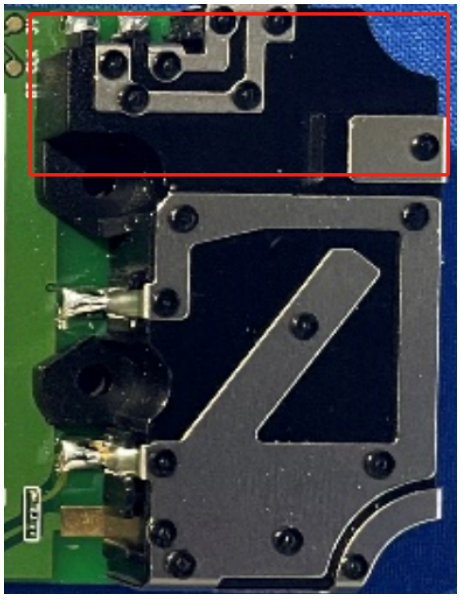
Omni-directional radiation
High Efficiency
Low cost

- Lead free soldering compatible
- RoHS compliant
- Tape and reel packing

Electrical Characteristics

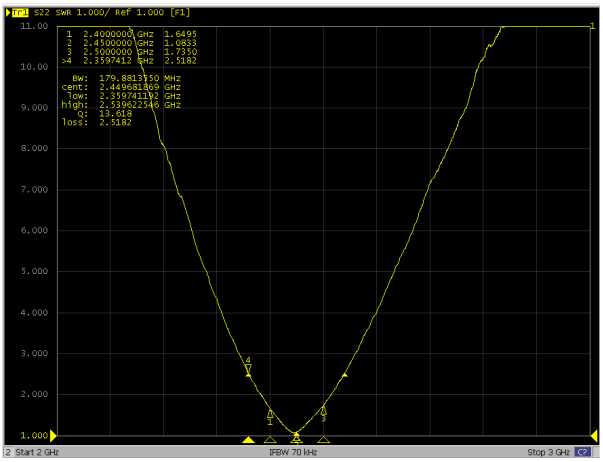
ITEM	SPECIFICATION
Frequency Band	2.40GHz～2.50GHz
VSWR	Less than 2.5
Polarization	Linear
*Peak Gain	1.8 dBi Typ.
*Efficiency	80% Typ.
Impedance	50Ω Typ.

Antenna Dimension

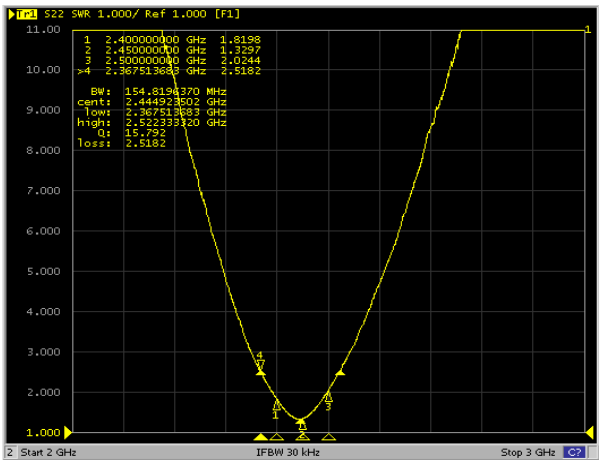


Typical VSWR

Layout A

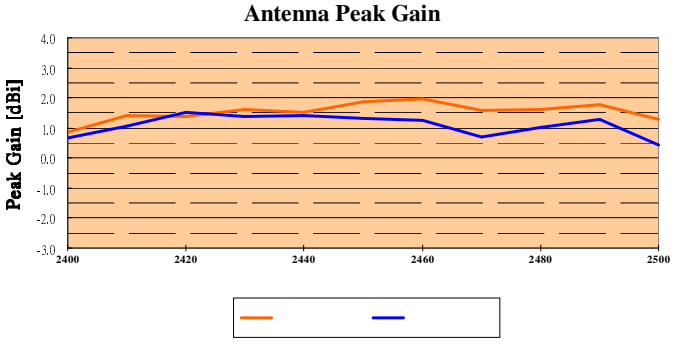


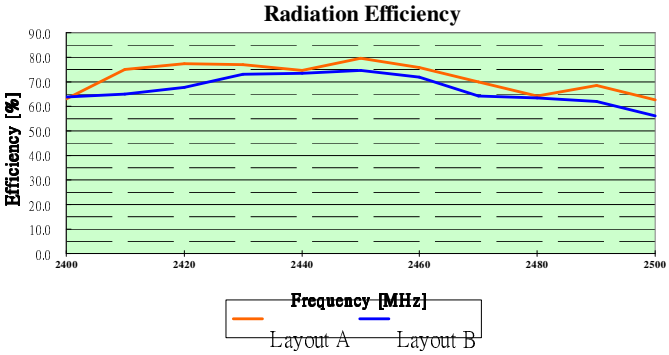
Layout B



Frequency	Layout A VSWR	Layout B VSWR
2400 MHz	1.65	1.82
2450 MHz	1.08	1.33
2500 MHz	1.74	2.02

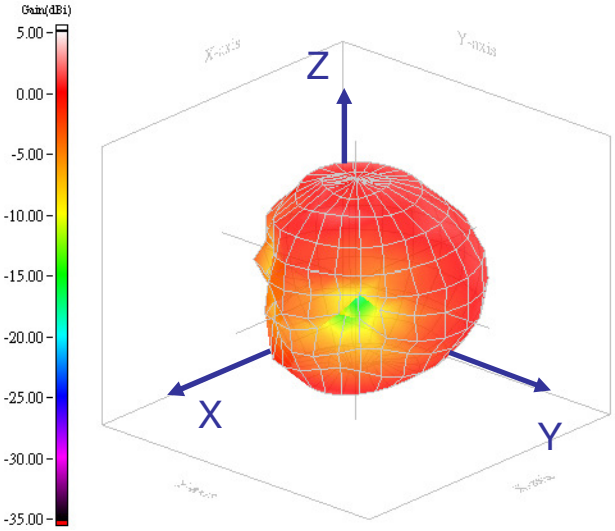
Typical Free Space Peak Gain and Efficiency



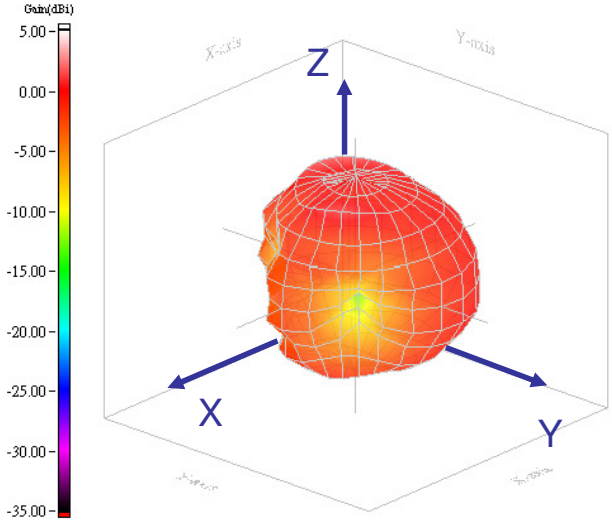


Frequency	Layout A Peak Gain	Layout B Peak Gain	Layout A Efficiency	Layout B Efficiency
2400 MHz	0.85 dBi	0.66 dBi	63.02%	63.80%
2450 MHz	1.80 dBi	1.33 dBi	79.60%	74.61%
2500 MHz	1.30 dBi	0.42 dBi	62.65%	56.31%

Layout A 2450 MHz



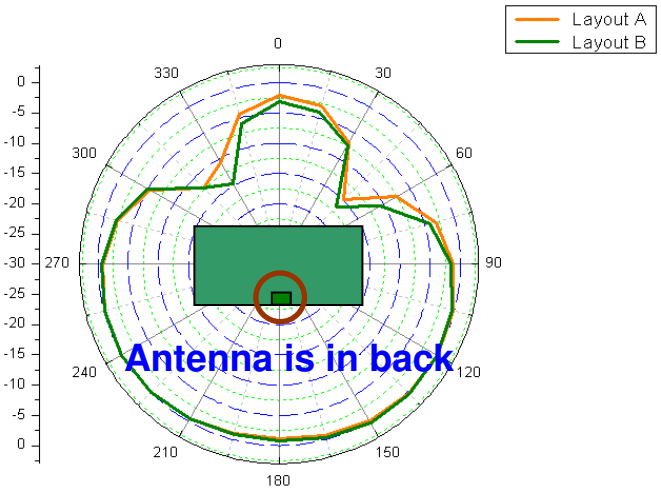
Layout B 2450 MHz



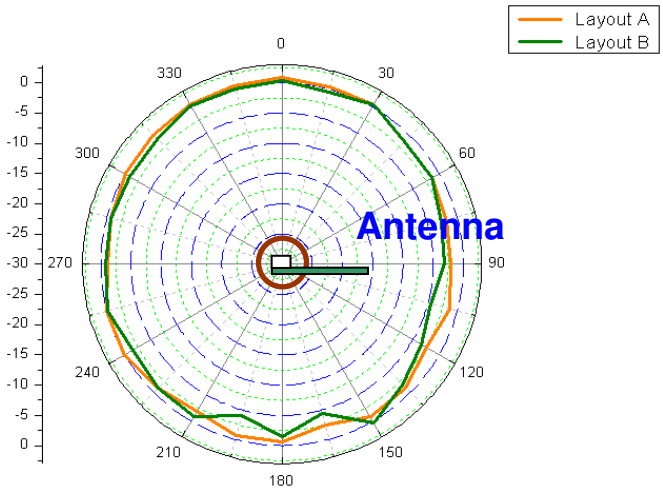
Typical Free Space Radiation Pattern

2D Radiation Pattern

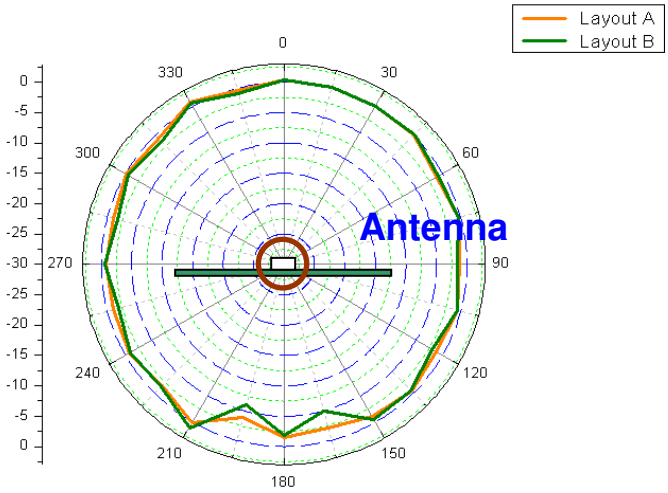
X-Y Plane 2450 MHz



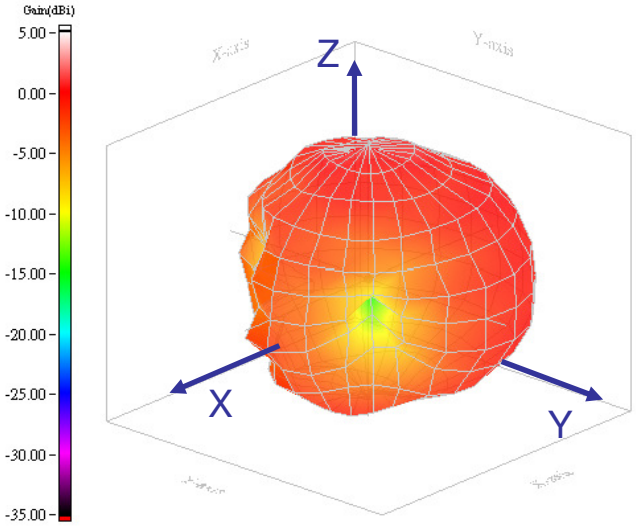
X-Z Plane 2450 MHz



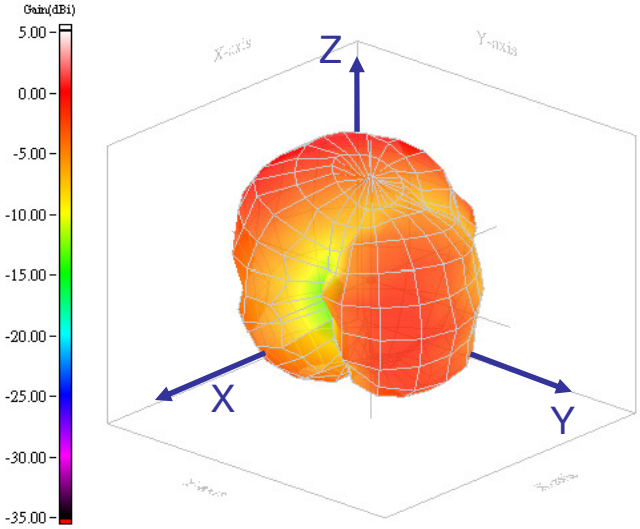
Y-Z Plane 2450 MHz



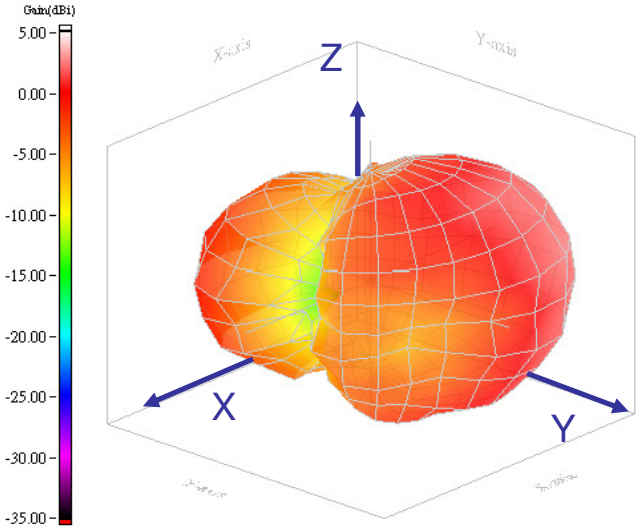
Location A 2450 MHz



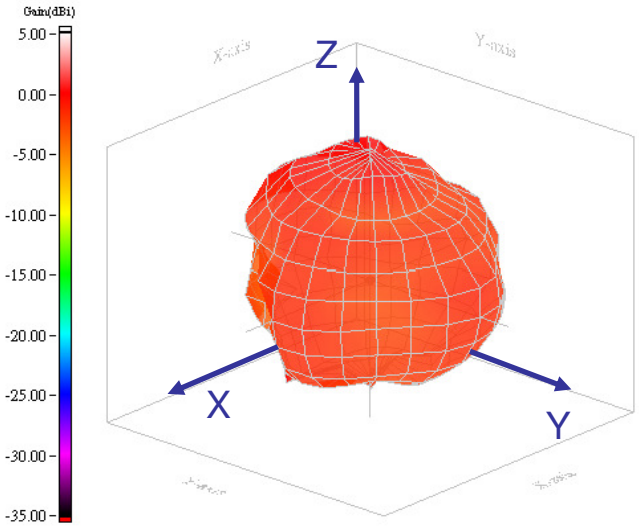
Location B 2450 MHz



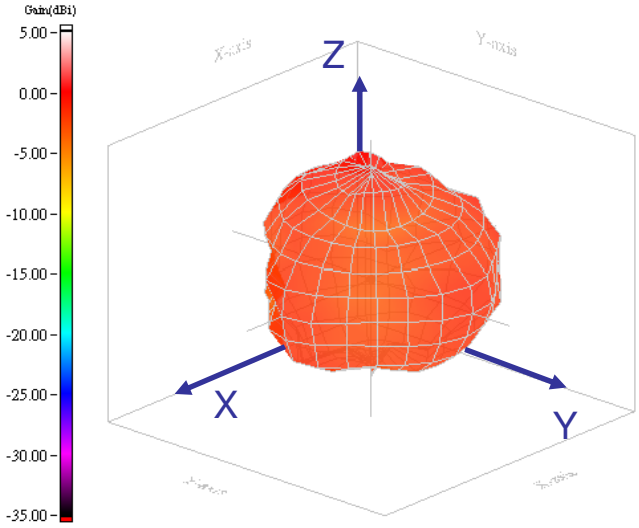
Location C 2450 MHz



Location D 2450 MHz



Location E 2450 MHz



Location F 2450 MHz