

Product specification

Quick Reference Date

Antenna module on the system board	
Frequency	2400Mhz-2500Mhz
Ant. Port input Pwr.(dBm)	0 (Typ. BT class 2 output power)
Tot. Rad. Pwr.(dBm)	-2.3 (Input pwr - loss pwr)
Peak EIRP(dBm)	1.3
Directivity (dBi)	1(all direction antenna)
Efficiency (dB)	-2.3(58.5%)
Gain (dBi)	1.7 (Peak Gain XZ-plane)
Maximum Power(dBm)	1.3 (XY-plane)
Minimum Power(dBm)	-4(XY-plane)
Avg. Power (dBm)	-0.5(xY-plane)
Max/Min Ratio (dB)	5.3(xY-plane)
Max/'Avg Ratio (dB)	1.8(XY-plane)
Min/Avg Ratio (dB)	-3.5(xY-plane)
Average Gain(dB)	-0.5 (Avg Gain XY-plane)

Manufacturer:Shenzhen Cignias Technology Co., Ltd
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Antenna Layout & module on the system board.

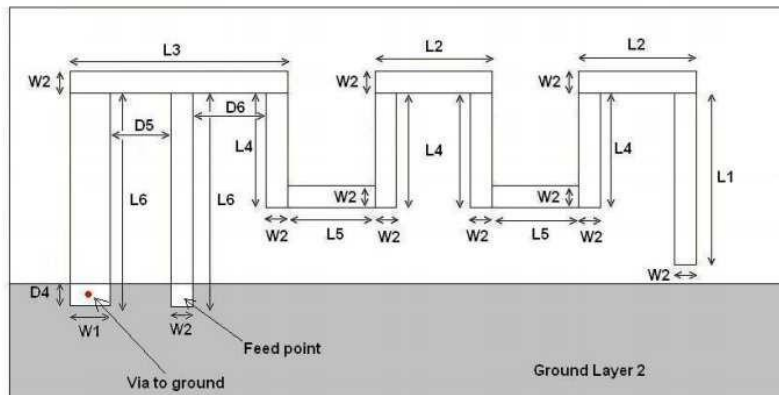


Figure 3: Antenna Dimensions

L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

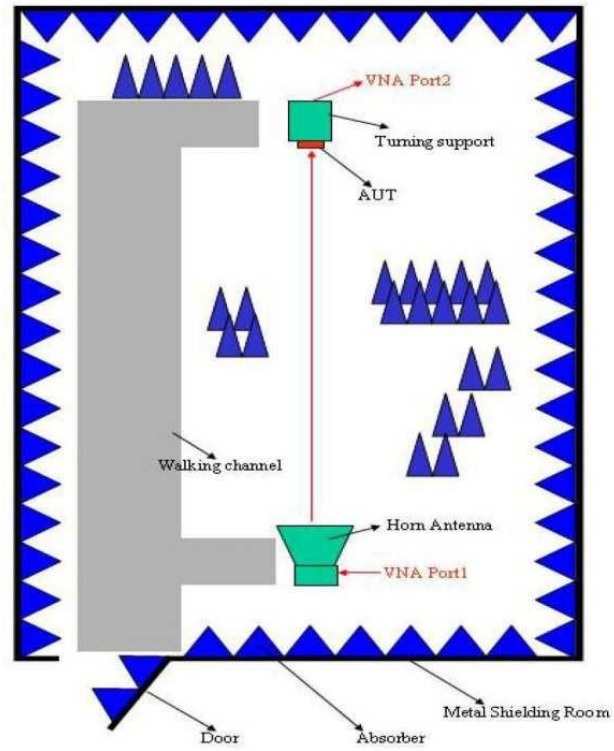
Table 1: Antenna Dimensions

Antenna Gain
Gain Table

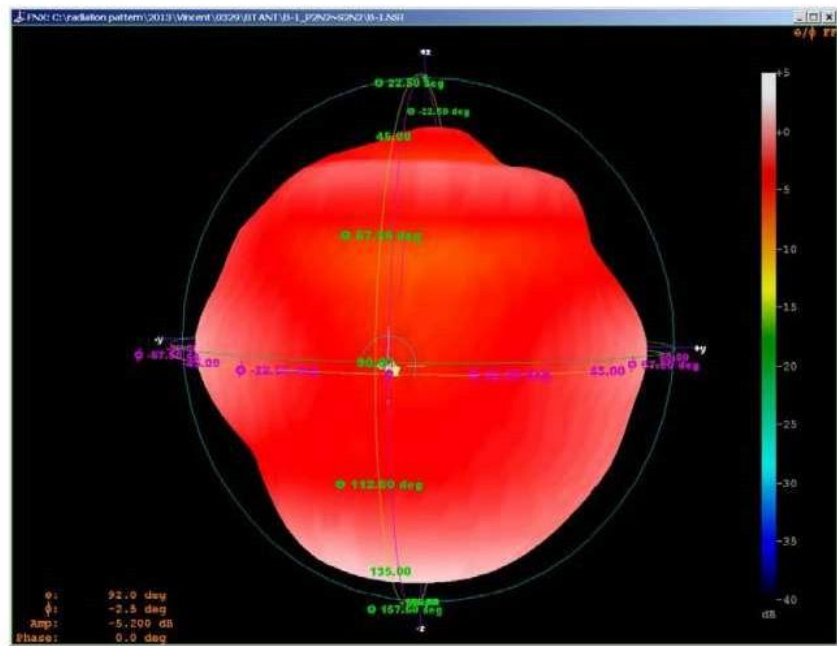
Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.3	-0.5	1.7	-3.8	1.1	-3.0	58.5%



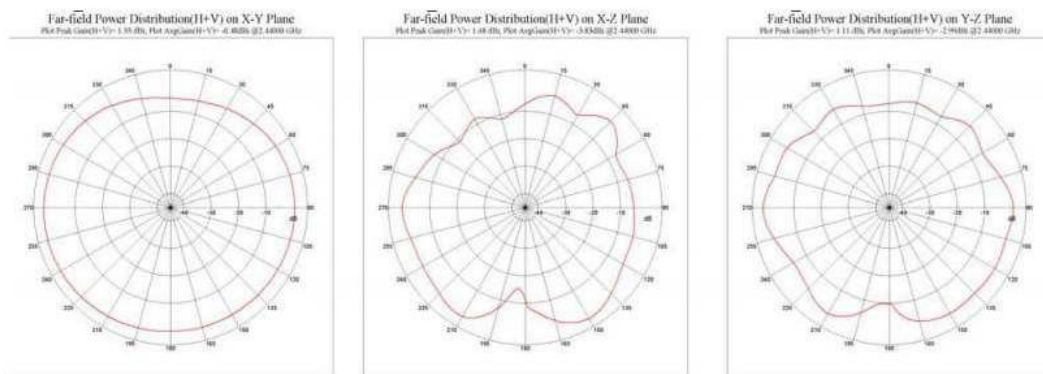
Return Loss



The Environment of Antenna Radiation Pattern



3D radiation pattern diagram



XY-plane XZ-plane YZ-plane