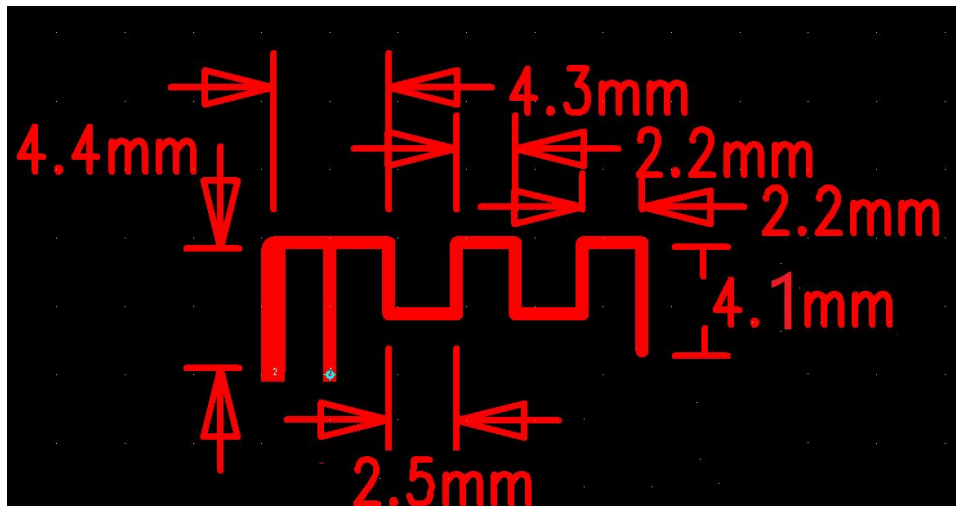


Antenna Specification

Antenna plate	PCB antenna
Make name/model name	2.4G ANT
Antenna gain	2.67dBi
Frequency range	2402-2480MHz
Connector type	direction
Name of Manufacturer	Shenzhen Champon Technology Co., Ltd.

External view drawing:

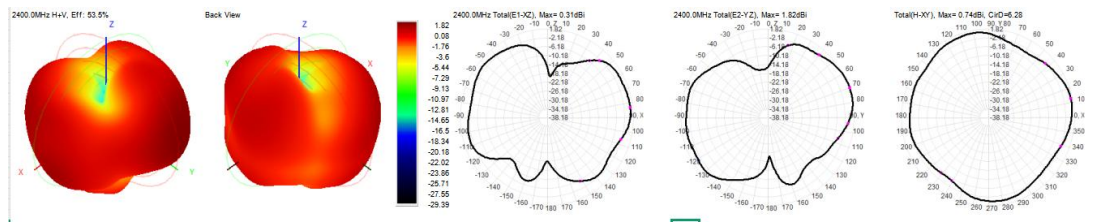


Antenna Gain and Efficiency

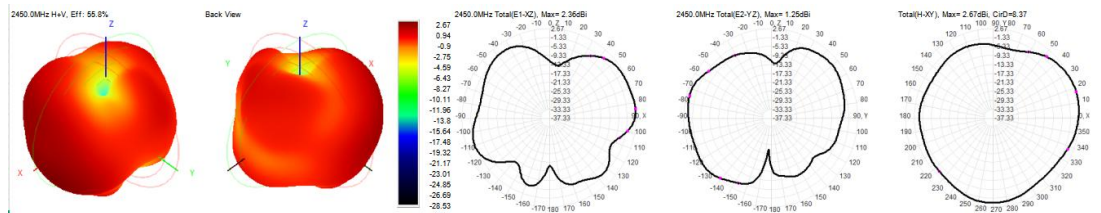
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.72	-2.38	-2.19	-2.15	-2.37	-2.53	-2.77	-3.06	-3.31	-3.33	-3.31
Gain (dBi)	1.82	2.21	1.79	2.44	2.65	2.67	2.56	2.15	1.76	1.77	1.83
Efficiency (%)	53.50	57.74	60.36	60.98	57.97	55.81	52.83	49.40	46.62	46.43	46.69
Directivity (dB)	4.64	4.59	3.98	4.59	5.05	5.31	5.33	5.22	5.08	5.10	5.20
Peak Gain Position (Theta)	74.00	75.00	76.00	88.00	88.00	87.00	86.00	85.00	66.00	87.00	87.00
Peak Gain Position (Phi)	97.00	99.00	98.00	23.00	20.00	16.00	14.00	14.00	301.00	15.00	15.00
Efficiency ThetaPol (%)	32.34	34.53	35.12	35.18	34.19	34.39	33.68	31.50	28.65	27.23	25.96
Efficiency PhiPol (%)	21.16	23.21	25.24	25.80	23.77	21.43	19.15	17.90	17.97	19.20	20.73
Upper Hem. Efficiency (%)	33.44	35.95	37.18	37.18	35.49	34.63	33.31	31.33	29.36	28.69	28.33
Lower Hem. Efficiency (%)	20.07	21.80	23.19	23.80	22.48	21.19	19.52	18.07	17.26	17.74	18.36

Antenna Radiation Pattern

2400MHz



2450MHz



2500MHz

