

# Antenna Information

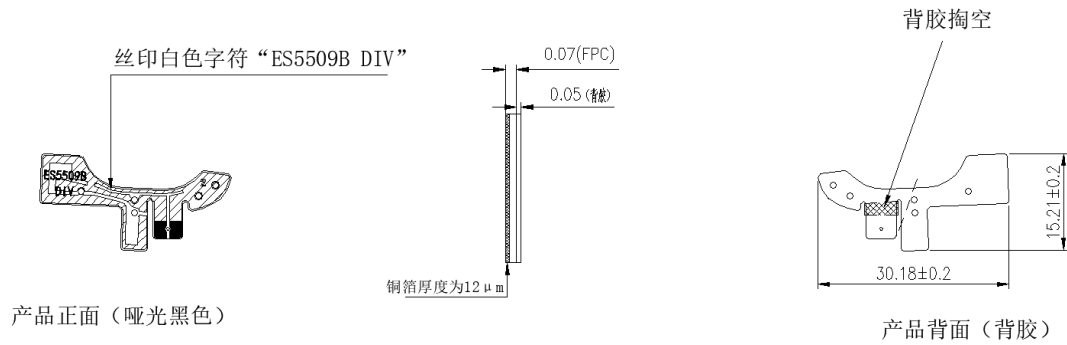
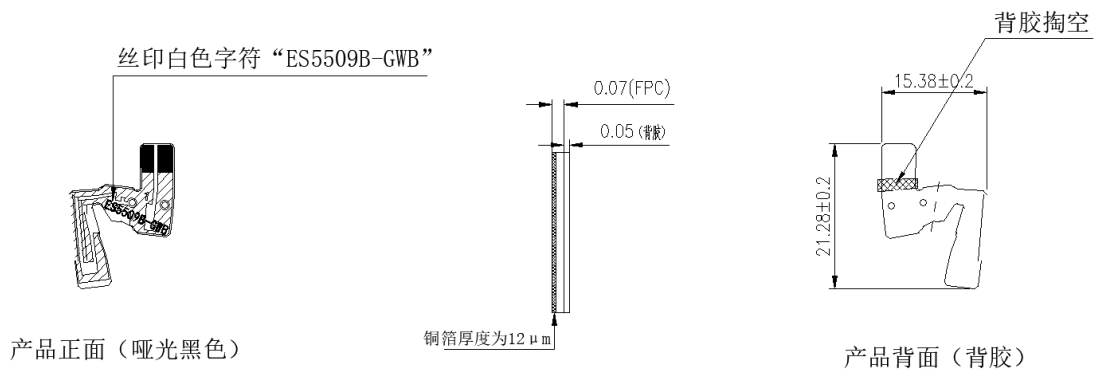
1. Brand and model of Antenna  
Brand: smooth  
Model of Antenna: ES5509B

2. Antena Gain in dBi.

Bluetooth / WIFI-2.4G	PIFA Intenna	0.5dBi
WIFI-5.2G	PIFA Intenna	-0.24dBi
WIFI-5.8G	PIFA Intenna	-0.81dBi

## Antenna Size :

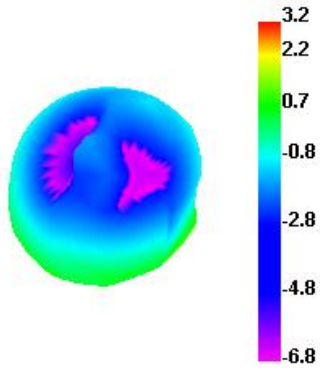
WIFI & Bluetooth Antenna:15.38\*21.28\*0.12mm



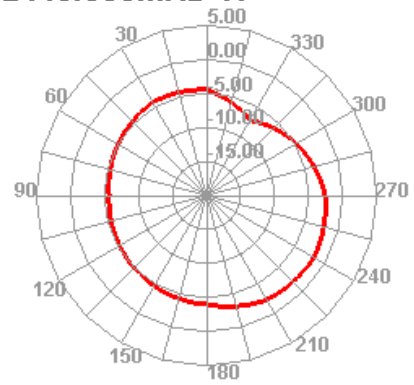
## WIFI & Bluetooth Gian:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.01	0.09	5150	30.75	-1.46	5700	30.73	-0.85
2410	45.17	0.02	5200	29.21	-1.06	5750	30.44	-0.81
2420	48.37	0.10	5250	32.88	-0.24	5800	30.13	-1.07
2430	47.44	0.06	5300	34.13	0.14	5850	29.99	-1.25
2440	52.97	0.22	5350	37.58	0.30			
2450	54.53	0.34	5400	36.47	0.17			
2460	56.55	0.49	5450	32.34	-0.61			
2470	55.57	0.46	5500	32.51	-1.19			
2480	57.64	0.50	5550	31.66	-1.57			
2490	55.36	0.43	5600	31.41	-1.72			
2500	54.16	0.42	5650	30.77	-1.23			

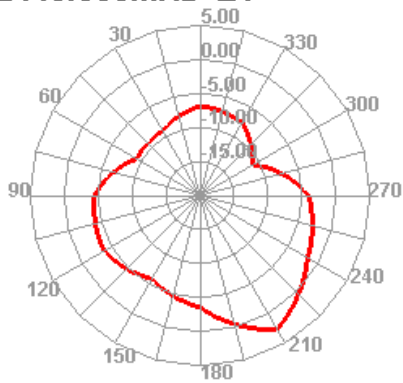
2440.000MHz



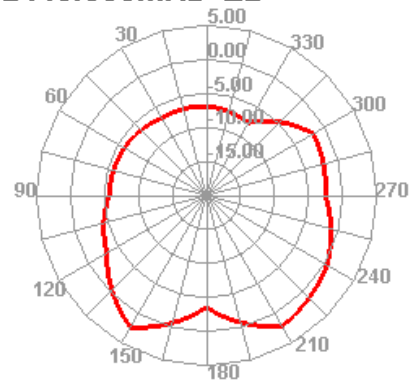
2440.000MHz H



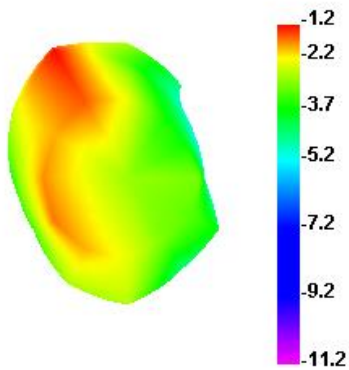
2440.000MHz E1



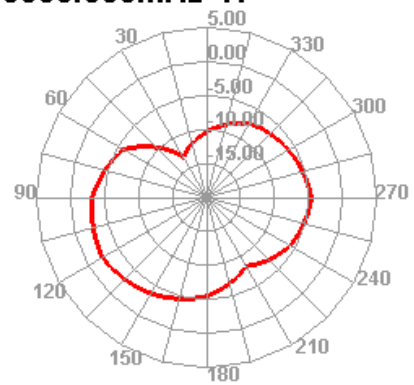
2440.000MHz E2



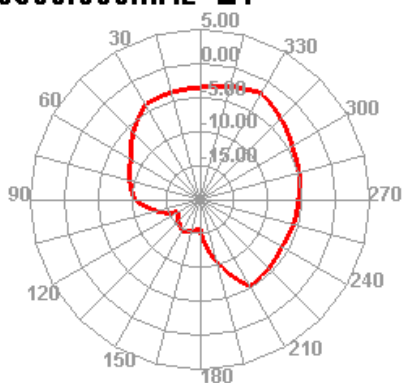
5500.000MHz



5500.000MHz H



5500.000MHz E1



5500.000MHz E2

