

Antenna specification

Model : BC7161CV1

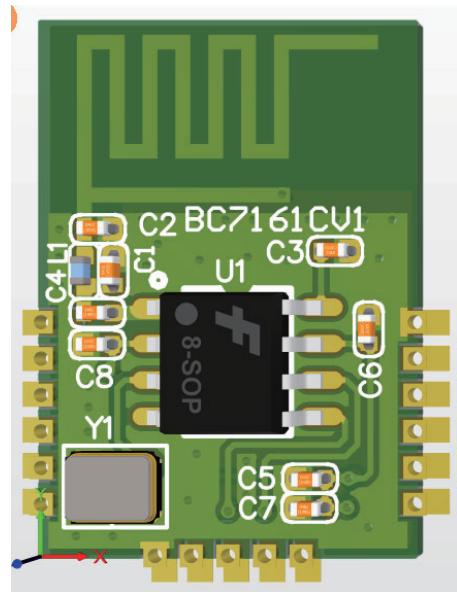
Version: V1.00

Manufacturer: HE SHAN RUN CHANG ELECTRON AND ELECTRIC CO., LTD

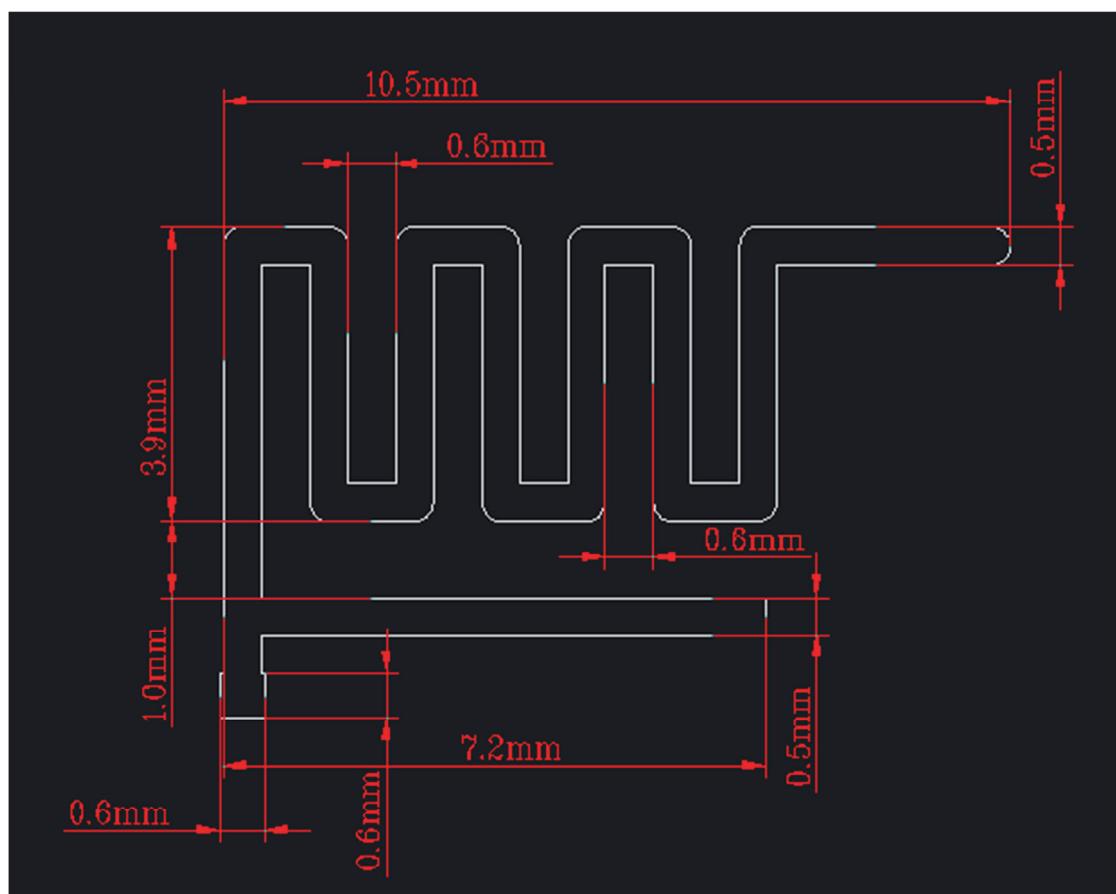
PREPARED BY: TANG HAIFU APPROVED BY:

DATE: 2024.3.1 DATE:

1. PCB Location Definition



2. Antenna Dimensions



3. Antenna Gain Table

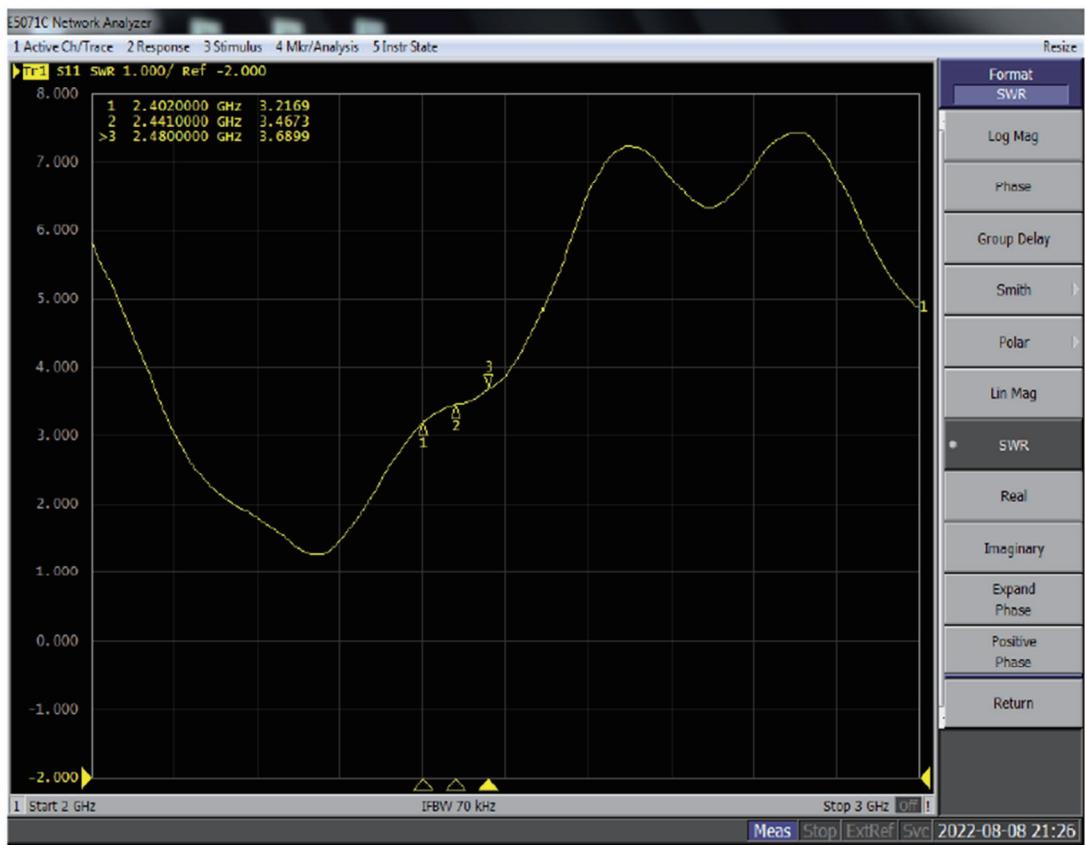
Free Space			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2350	-7.42	18.12	-0.57
2355	-7.42	18.12	-0.67
2360	-7.27	18.76	-0.47
2365	-7.40	18.21	-0.69
2370	-7.46	17.95	-0.74
2375	-7.57	17.49	-0.93
2380	-7.59	17.40	-0.96
2385	-7.64	17.21	-0.98
2390	-7.68	17.05	-1.08
2395	-7.53	17.65	-0.90
2400	-7.58	17.47	-1.05
2402	-7.54	17.64	-0.95
2405	-7.46	17.97	-0.91
2410	-7.49	17.83	-0.97
2415	-7.56	17.53	-0.97
2420	-7.71	16.94	-1.13
2425	-7.72	16.90	-1.07
2430	-7.67	17.08	-1.00
2435	-7.56	17.55	-0.90
2440	-7.38	18.26	-0.77
2441	-7.37	18.31	-0.75
2445	-7.31	18.58	-0.69
2450	-7.22	18.98	-0.66
2455	-7.13	19.37	-0.53
2460	-7.08	19.58	-0.51
2465	-6.93	20.27	-0.27
2470	-6.94	20.21	-0.26
2475	-6.77	21.05	-0.07
2480	-6.80	20.92	-0.10
2482	-6.76	21.10	-0.16
2485	-6.68	21.48	-0.07
2490	-6.60	21.88	0.13
2495	-6.39	22.96	0.14
2500	-6.16	24.20	0.55

2505	-6.06	24.75	0.48
2510	-5.98	25.22	0.78
2515	-6.18	24.08	0.57
2520	-6.26	23.65	0.53
2525	-6.31	23.38	0.50
2530	-6.23	23.81	0.45
2535	-6.13	24.38	0.59
2540	-6.09	24.63	0.42
2545	-5.87	25.89	0.74
2550	-5.90	25.69	0.66
2555	-5.79	26.39	0.86
2560	-5.83	26.11	0.76
2565	-5.75	26.59	0.77
2570	-5.74	26.70	0.86
2575	-5.78	26.44	0.64
2580	-5.56	27.77	0.82

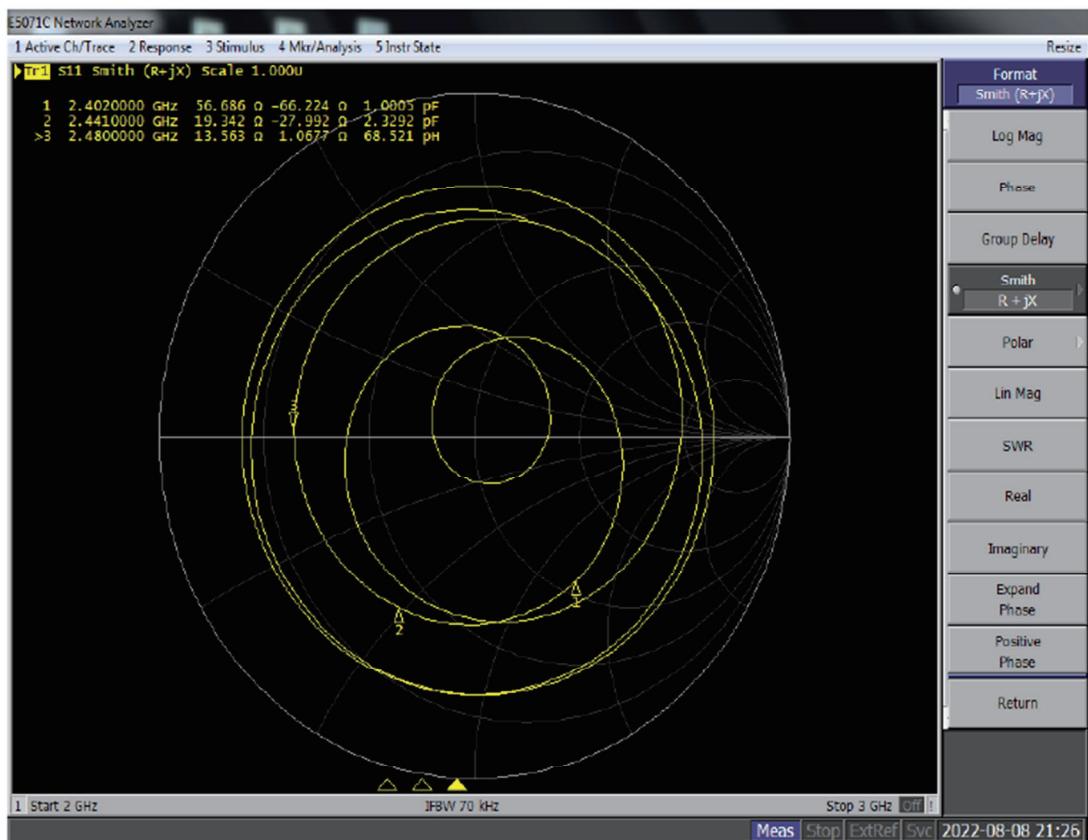
4. 2D Antenna Pattern(Theta=90°)



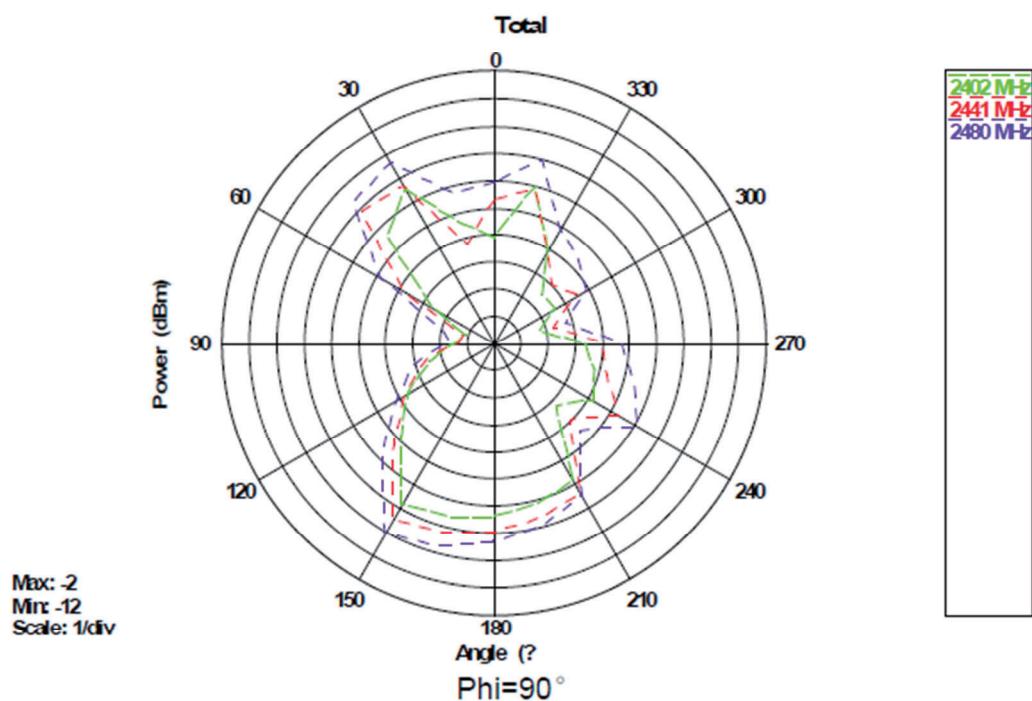
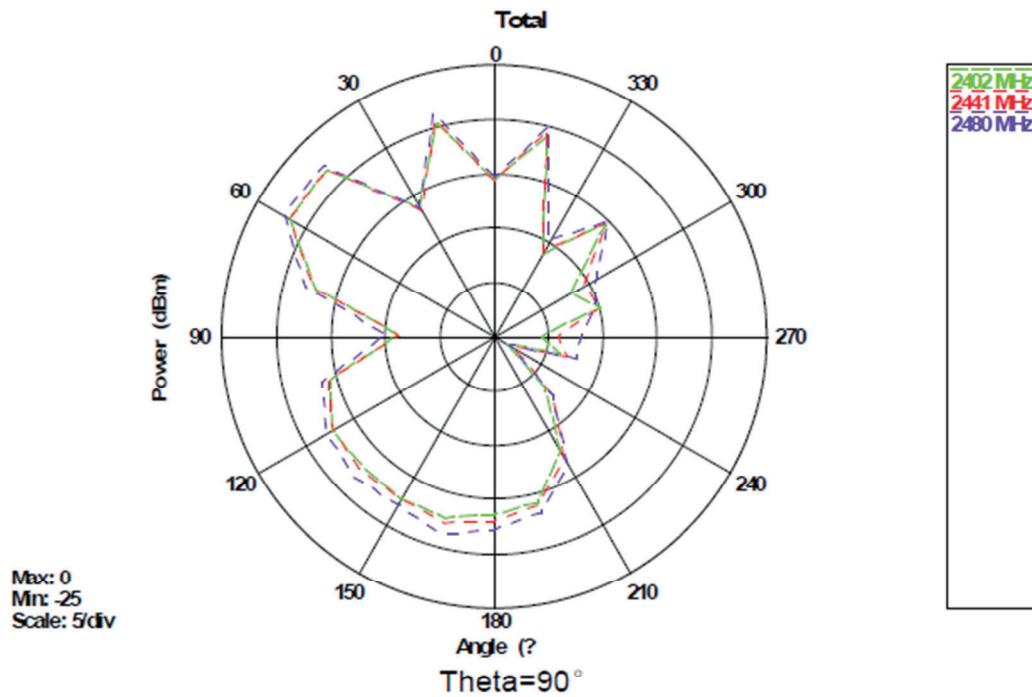
5. VSWR



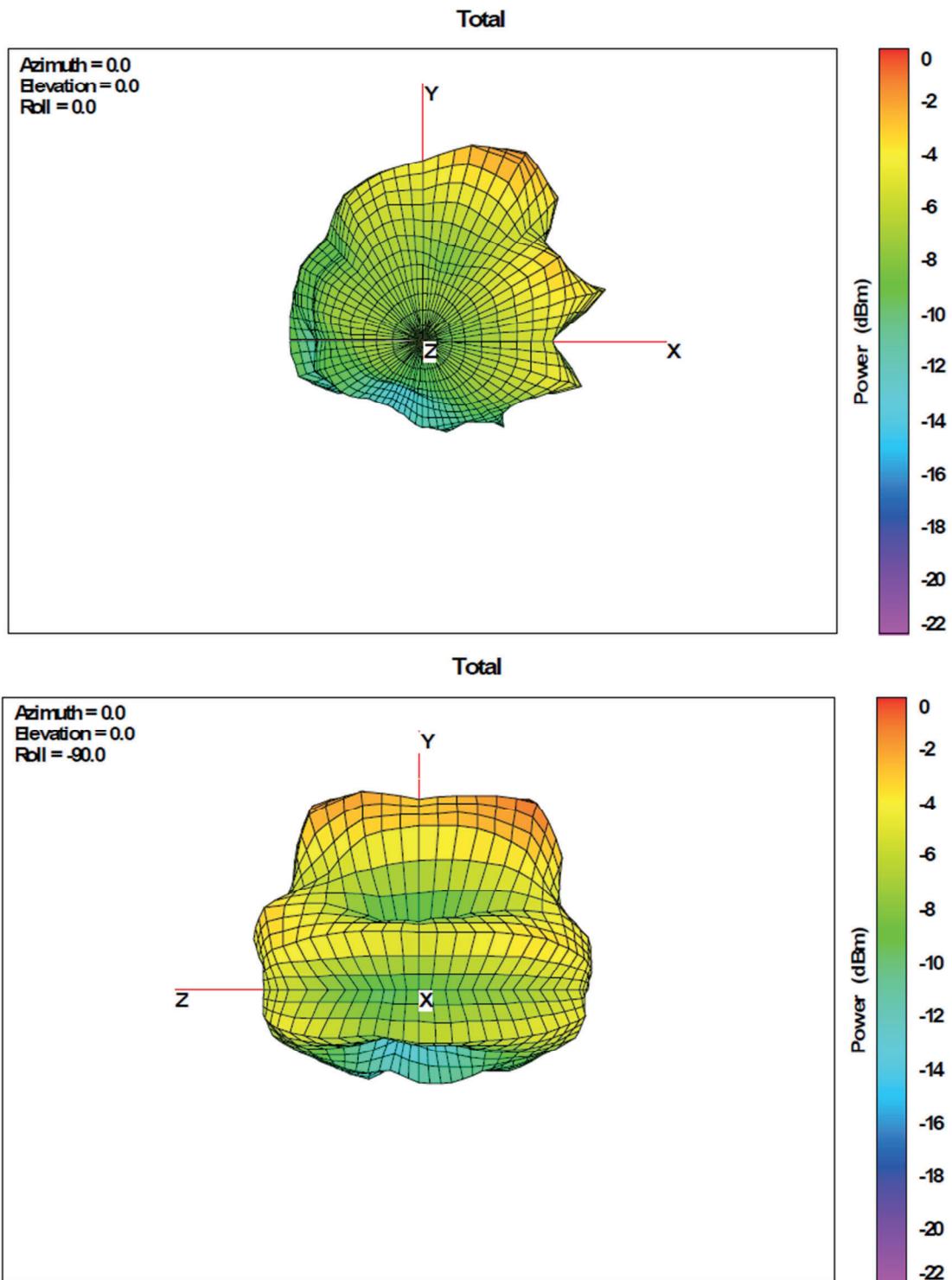
6. Stimulus



7. 2D Antenna Pattern(Theta=90°)



8. 3D Antenna Pattern



Total

Azimuth = 90.0
Elevation = -90.0
Roll = 0.0

