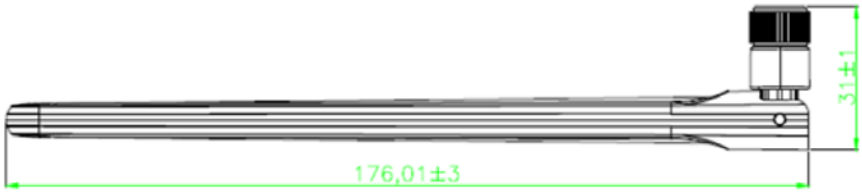
Antenna Specification

1. Summary

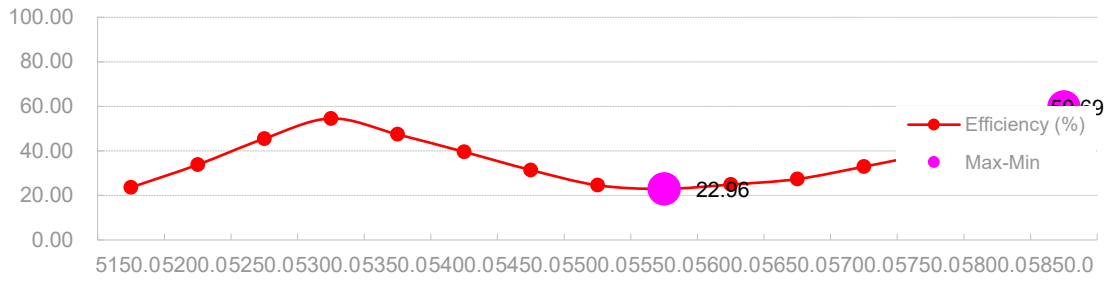
Manufacturer	Beijing Epotel Technology Co., Ltd.
Address	17th Floor, Shining Building, No. 35 Xueyuan Road, Haidian District, Beijing, China
Antenna Name	5GHz N foldable external omnidirectional antenna
Model	ZF-AT-5005
Frequency Range	5150 – 5850 MHz
SVWR	≤ 2.00
Typical Antenna Gain	**Maximum Gain is 2.00dBi**
Antenna Type	Omnidirectional Antenna
Junction Type	N Male (N-type connector)
Impedance	50 Ohm

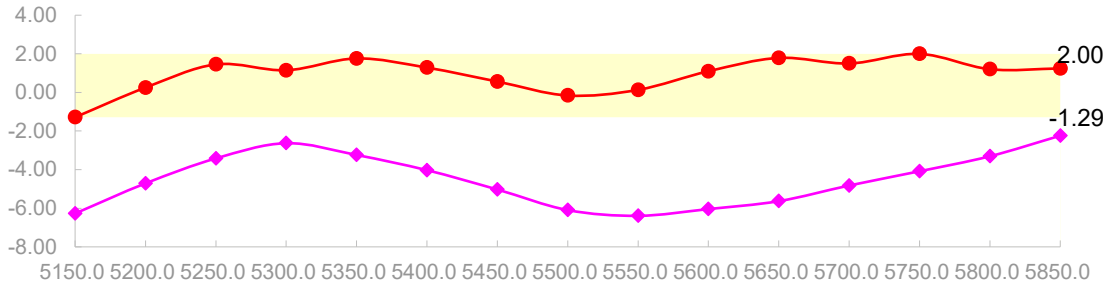
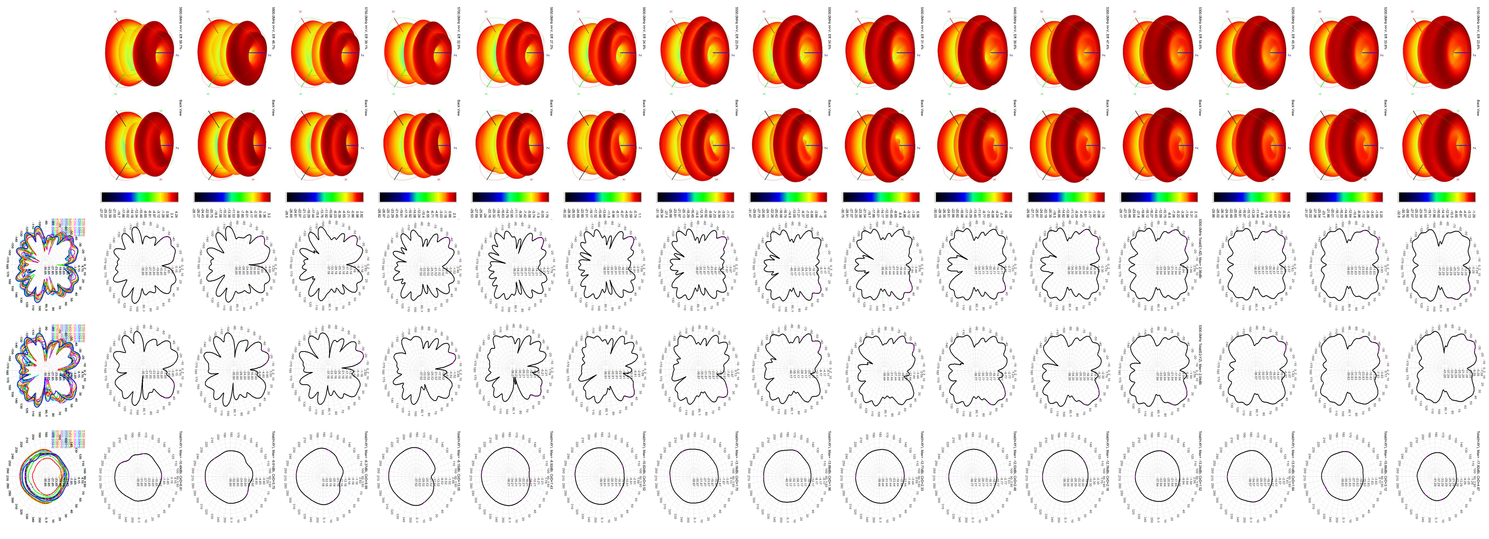
2. Antenna Dimension



3. Antenna Gain and Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-6.27	-4.71	-3.42	-2.63	-3.24	-4.03	-5.03	-6.09	-6.39	-6.04	-5.63	-4.82	-4.08	-3.31	-2.24
Gain (dBi)	-1.29	0.25	1.45	1.15	1.76	1.28	0.56	-0.16	0.13	1.10	1.79	1.50	2.00	1.20	1.24
Efficiency (%)	23.60	33.80	45.52	54.57	47.41	39.56	31.41	24.58	22.96	24.88	27.35	32.95	39.05	46.70	59.69
Directivity (dB)	4.99	4.96	4.87	4.78	5.00	5.31	5.59	5.94	6.52	7.14	7.42	7.32	6.90	6.51	6.48
T90(H)圆度	4.87	3.12	1.84	1.52	2.18	2.48	2.33	1.96	1.70	3.52	7.43	13.05	9.99	5.75	6.81
Gain 15deg (dBi)															
E1(XZ)波瓣宽度	32.00	32.00	32.00	32.00	32.00	15.00	15.00	14.00	14.00	13.00	13.00	13.00	14.00	15.00	16.00
E2(YZ)波瓣宽度	18.00	17.00	18.00	32.00	32.00	32.00	15.00	15.00	17.00	16.00	17.00	15.00	15.00	17.00	25.00
E2(YZ)前后比	5.57	6.31	7.10	8.23	9.57	10.40	10.27	10.08	9.49	8.89	7.98	6.70	5.84	5.04	5.27
最大增益处轴比(P)	52.67	26.94	32.55	28.52	34.96	34.64	28.11	26.67	37.77	32.46	26.22	28.52	41.71	24.86	20.17
顶点(Theta=0)处轴比(P)	29.79	19.00	15.19	13.02	11.12	13.82	14.99	16.42	17.80	19.47	22.71	25.77	20.75	2.47	6.76
Hc(XY)波瓣宽度	240.00	349.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	298.00	229.00	213.00	218.00	185.00	291.00
Hc(XY)前后比	4.13	1.69	0.63	0.90	1.90	1.92	0.94	0.88	0.43	0.00	0.00	0.00	0.00	0.00	0.30
左旋圆极化效率(%)	11.97	17.24	22.95	27.54	23.78	19.95	15.68	12.50	11.79	12.77	13.87	16.72	19.77	23.70	30.40
右旋圆极化效率(%)	11.63	16.56	22.56	27.03	23.63	19.61	15.73	12.08	11.17	12.11	13.48	16.23	19.29	23.00	29.29
轴对称天线主瓣下倾角度(平均值)	51.03	50.79	50.28	50.12	50.75	50.68	50.70	50.82	50.59	50.17	49.68	54.25	55.76	56.19	55.27





4. 3D/4D Radiation Pattern