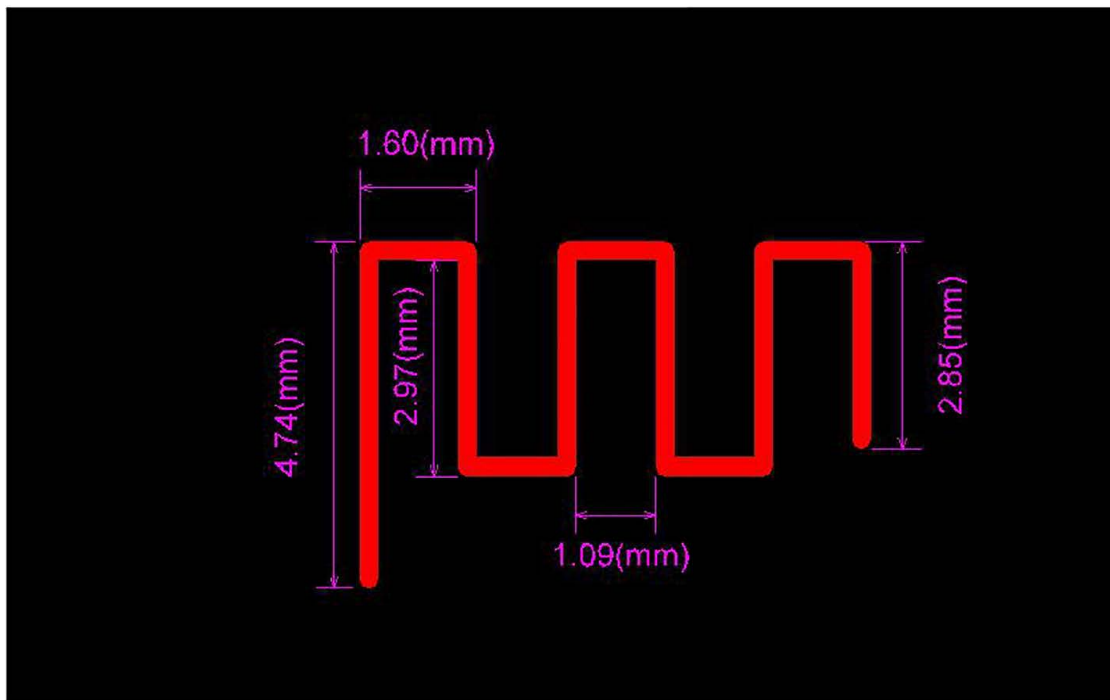


Antenna Specification

1. Antenna Layout & module on the system board:

Manufacturer : SHENZHEN LANKE XUNTONG TECHNOLOGY CO.,LTD.

Address: Room 309-310, 3rd Floor, Building 1, Block B, Software Industry Base, No. 1003 Keyuan Road, Nanshan District, Shenzhen, Guangdong, China



2.Efficiency&Gain&PatternRipple&3D Radiation Pattern

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-11.42	-11.22	-10.98	-10.81	-10.78	-10.36	-10.51	-10.27	-10.39	-10.13	-10.03
Gain (dBi)	-6.69	-6.52	-6.64	-6.73	-6.81	-6.41	-6.43	-6.08	-5.89	-5.49	-5.43
Efficiency (%)	7.21	7.55	7.98	8.30	8.36	9.20	8.89	9.39	9.15	9.70	9.92
Directivity (dB)	4.73	4.71	4.34	4.08	3.97	3.96	4.08	4.20	4.49	4.64	4.60
Peak Gain Position (Theta)	75.00	75.00	105.00	105.00	120.00	90.00	90.00	90.00	90.00	90.00	90.00
Peak Gain Position (Phi)	315.00	315.00	285.00	285.00	105.00	90.00	90.00	285.00	285.00	285.00	285.00
Efficiency ThetaPol (%)	6.70	7.03	7.44	7.74	7.79	8.56	8.26	8.72	8.51	9.03	9.22
Efficiency PhiPol (%)	0.51	0.51	0.54	0.55	0.57	0.64	0.63	0.67	0.64	0.68	0.70
Upper Hem. Efficiency (%)	3.35	3.49	3.70	3.87	3.94	4.35	4.16	4.33	4.18	4.44	4.60
Lower Hem. Efficiency (%)	3.87	4.06	4.28	4.42	4.42	4.85	4.73	5.06	4.97	5.26	5.33
T80 (H-plane) Circularity	5.86	6.12	5.78	5.59	5.40	5.58	5.67	6.13	6.54	6.45	6.22
Gain 15deg(dBi)											
E1(QZ-plane) Half-Power Beamwidth(HPBW)	51.00	54.00	58.00	55.00	54.00	55.00	54.00	56.00	57.00	62.00	82.00
E1(QZ-plane) Front-to-Back Ratio(F/B Ratio)	6.39	6.20	5.72	5.82	5.82	5.70	5.93	5.88	5.87	5.75	5.56
E1(YZ-plane) Half-Power Beamwidth(HPBW)	61.00	62.00	65.00	67.00	92.00	93.00	91.00	91.00	68.00	67.00	67.00
E1(YZ-plane) Front-to-Back Ratio(F/B Ratio)	4.09	4.11	3.97	3.93	4.23	4.36	4.35	4.25	4.35	4.48	4.73
Axial Ratio (P) at Maximum Gain	14.44	15.53	22.31	24.45	18.32	18.05	18.47	12.52	12.01	12.21	12.90
Axial Ratio (P) at Boresight(Theta=0°)	23.58	36.55	28.62	39.80	23.52	24.44	23.08	28.22	46.03	28.32	16.29
Worst-case(Maximum)Axial Ratio(P) at 10° Elevation	58.40	66.27	43.64	71.68	56.15	57.07	49.81	51.04	53.80	54.79	64.60
HcQXY-plane) Half-Power Beamwidth(HPBW)	244.00	172.00	173.00	246.00	246.00	242.00	236.00	235.00	98.00	92.00	93.00
HcQXY-plane) Front-to-Back Ratio(F/B Ratio)	0.00	0.00	0.00	0.00	0.06	0.10	0.08	0.00	0.00	0.00	0.00
Left-Hand Circular Polarization(LHCP) Efficiency(%)	3.73	3.87	4.03	4.17	4.18	4.60	4.52	4.85	4.74	4.98	5.07
Right-Hand Circular Polarization(RHCP) Efficiency(%)	3.49	3.68	3.95	4.12	4.18	4.60	4.37	4.53	4.41	4.72	4.86

