

PCB Antenna

CUSTOMER NAME: Guangzhou Jiake Electronic Technology Co., Ltd.

Address: Room 1-209, Kehuiyuan, No. 95 Daguan Middle Road, Tianhe District, Guangzhou

Ren Feng P/N: PCB Antenna

VERSIONS:A

一、 Antenna size

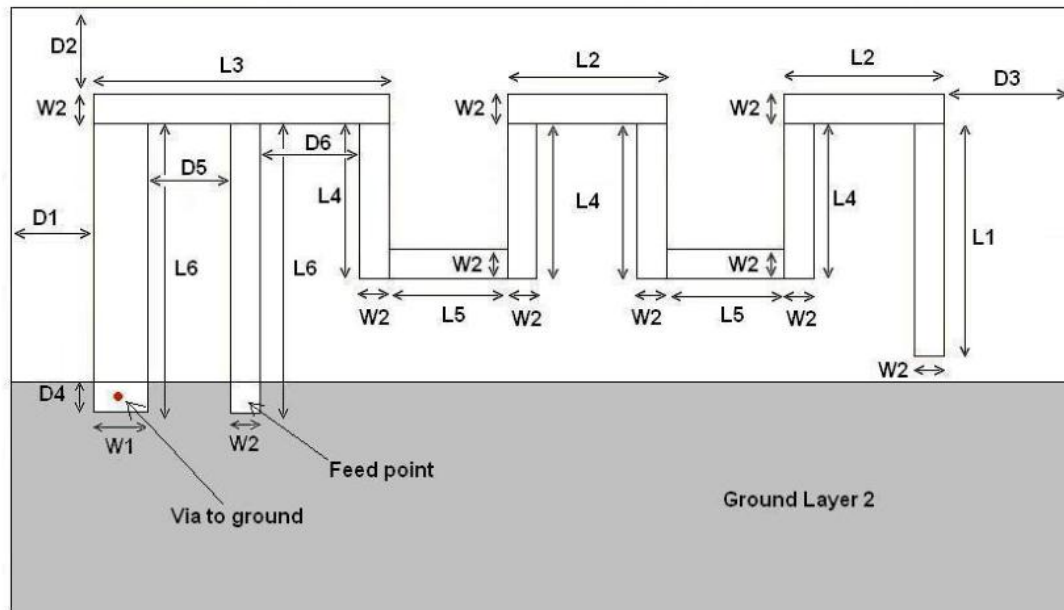


Figure 3: Antenna Dimensions

L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

Table 1: Antenna Dimensions

二、 Gain direction diagram

三、 Efficiency&Gain

FETUKEJ1											
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
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-13.13	-13.46	-13.76	-13.62	-13.64	-13.91	-13.93	-13.97	-14.17	-13.86	-13.96
Peak EIRP (dBm)	-8.31	-8.36	-8.36	-8.02	-8.07	-8.40	-8.47	-8.85	-9.53	-9.40	-9.65
Directivity (dBi)	4.82	5.10	5.40	5.60	5.57	5.51	5.46	5.13	4.64	4.46	4.31
Efficiency (dB)	-13.13	-13.46	-13.76	-13.62	-13.64	-13.91	-13.93	-13.97	-14.17	-13.86	-13.96
Efficiency (%)	4.90	4.50	4.20	4.30	4.30	4.10	4.00	4.00	3.80	4.10	4.00
Gain (dBi)	-8.31	-8.36	-8.36	-8.02	-8.07	-8.40	-8.47	-8.85	-9.53	-9.40	-9.65
NHPRP $\pm\pi/4$ (dBm)	-13.75	-13.84	-13.88	-13.57	-13.64	-13.91	-13.94	-14.18	-14.75	-14.51	-14.66
NHPRP $\pm\pi/6$ (dBm)	-15.05	-15.12	-15.14	-14.83	-14.91	-15.18	-15.22	-15.46	-16.04	-15.79	-15.94
NHPRP $\pm\pi/8$ (dBm)	-16.03	-16.08	-16.10	-15.80	-15.90	-16.19	-16.24	-16.49	-17.07	-16.80	-16.94
Upper Hem. PRP (dBm)	-15.88	-16.18	-16.45	-16.27	-16.25	-16.50	-16.49	-16.53	-16.71	-16.37	-16.45
Lower Hem. PRP (dBm)	-16.42	-16.78	-17.12	-17.03	-17.10	-17.39	-17.45	-17.49	-17.70	-17.43	-17.56
Upper Hem. PRP (%)	2.59	2.41	2.27	2.36	2.37	2.24	2.24	2.22	2.13	2.31	2.26
Lower Hem. PRP (%)	2.28	2.10	1.94	1.98	1.95	1.83	1.80	1.78	1.70	1.81	1.76

