

Product specif Ration

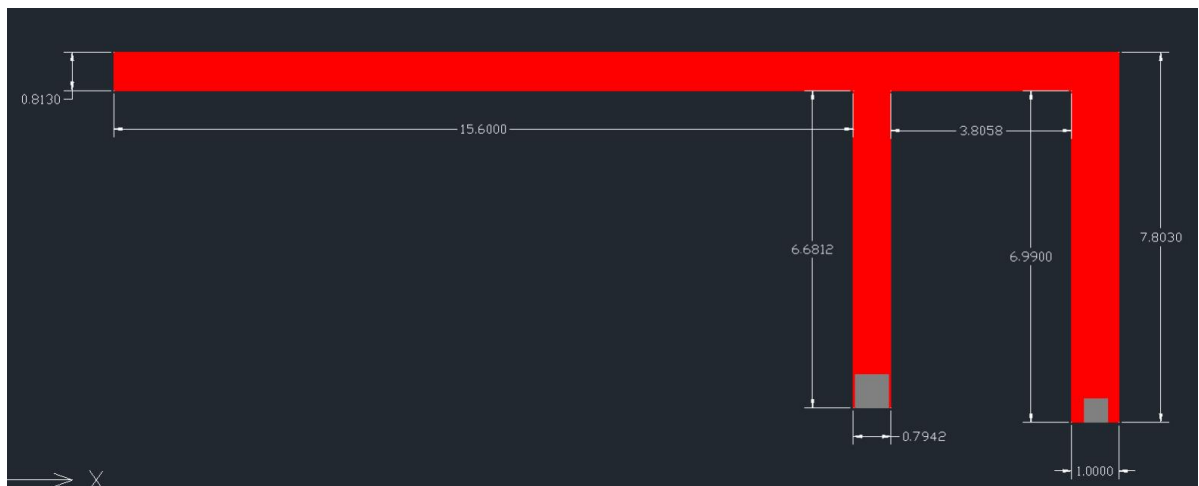
1. Technical indicators of products

Product Name	THOT-SED065 (K220L)-BLE-VO. 1
Frequency Range (MHz)	2.4Ghz
VSWR	1.77 MAX
Return Loss (dB)	-11.219
Peak Gain(dBi)	-
Polarization	Linear Vertical
Antenna Material	PCB
Operating Temp (° C)	-20 ~65
Storage Temp (C)	-30 ~75

2. Product picture

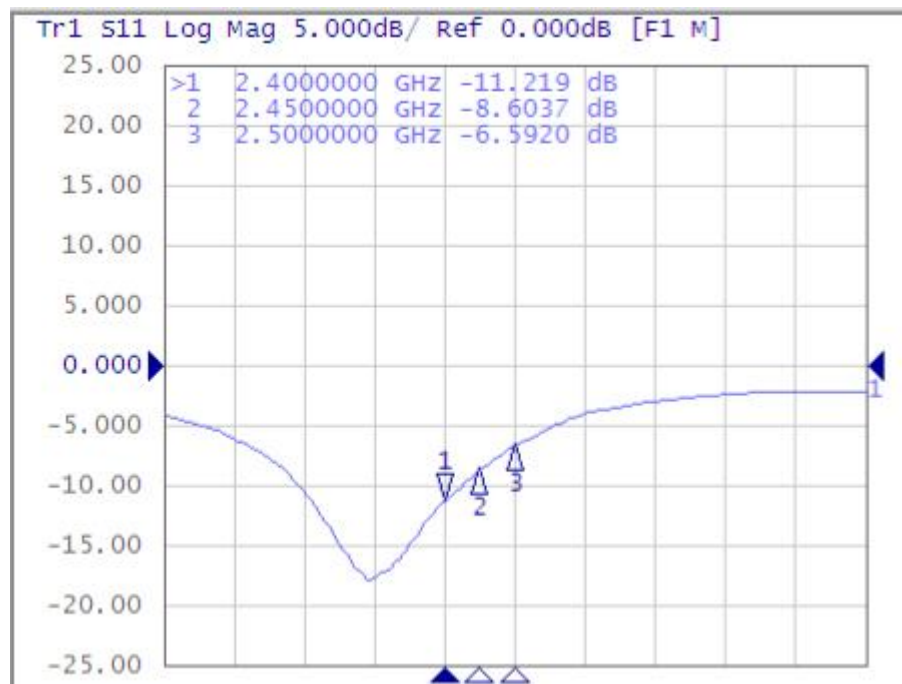
Antenna for on-board PCB, manufacturer: Shenzhen Hongtu Circuit Co., Ltd.

location: Building A9 & A12, Yanqian Industrial Concentration Zone, Wuping County, Longyan City, Fujian Province, China

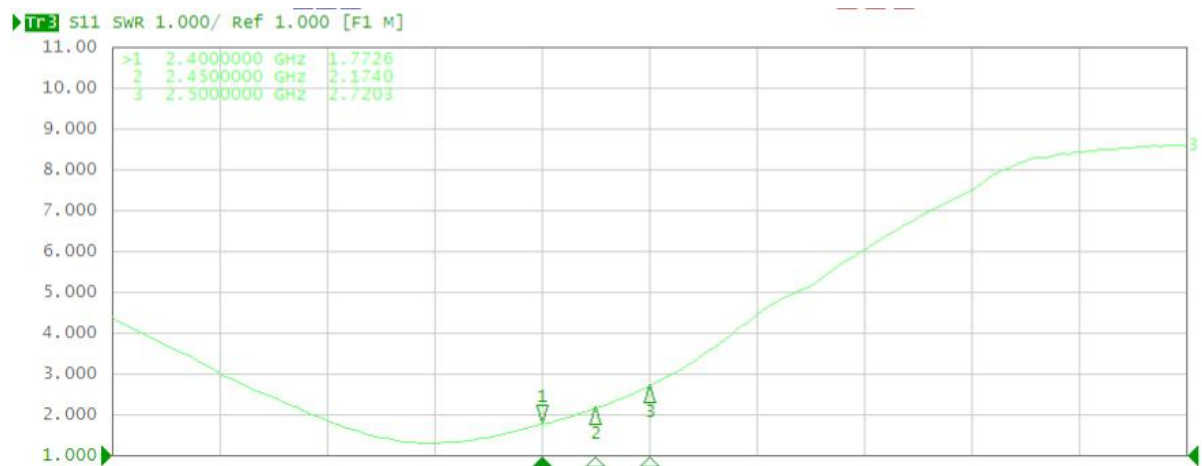


Unit: mm

3. Return Loss



4. VSWR

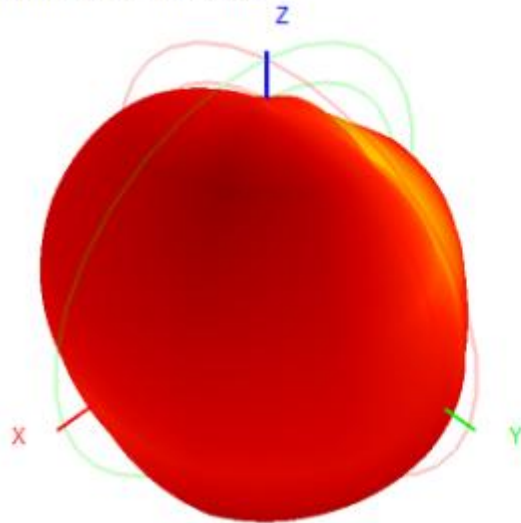


5. Test Data:

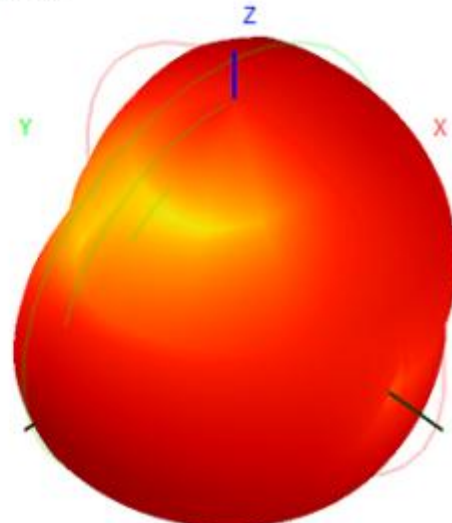
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.18	-3.32	-3.42	-3.39	-3.32	-3.20	-3.31	-3.49	-3.46	-3.40	-3.37
Gain (dBi)	-0.23	-0.54	-0.60	-0.53	-0.31	-0.13	-0.22	-0.57	-0.54	-0.46	-0.56
Efficiency (%)	48.10	46.57	45.50	45.85	46.51	47.86	46.72	44.82	45.09	45.76	46.05
Directivity (dB)	2.94	2.78	2.82	2.85	3.02	3.07	3.08	2.92	2.92	2.93	2.80
Peak Gain Position (Theta)	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	150.00	150.00	120.00
Peak Gain Position (Phi)	180.00	180.00	180.00	210.00	180.00	180.00	180.00	180.00	210.00	210.00	300.00
Efficiency ThetaPol (%)	32.46	30.46	30.26	30.36	31.64	32.70	32.32	30.89	30.79	31.03	31.02
Efficiency PhiPol (%)	15.65	16.10	15.24	15.50	14.87	15.16	14.39	13.93	14.30	14.73	15.03
Upper Hem. Efficiency (%)	17.65	16.97	16.39	16.44	16.50	16.91	16.49	15.81	15.89	16.15	16.44
Lower Hem. Efficiency (%)	30.46	29.60	29.11	29.41	30.01	30.95	30.22	29.01	29.20	29.61	29.61

6.3D gain pattern

2400.0MHz H+V, Eff: 48.1%



Back View



7.E ,h plan

