

Antenna Product

Specification For Approval

Customer:

Dongguan Meitai Electronics Co., Ltd

Supplier:

Guangdong Hetong Technology Co.,Ltd

Customer P/N:

Production Name:

2.4G PCB Antenna

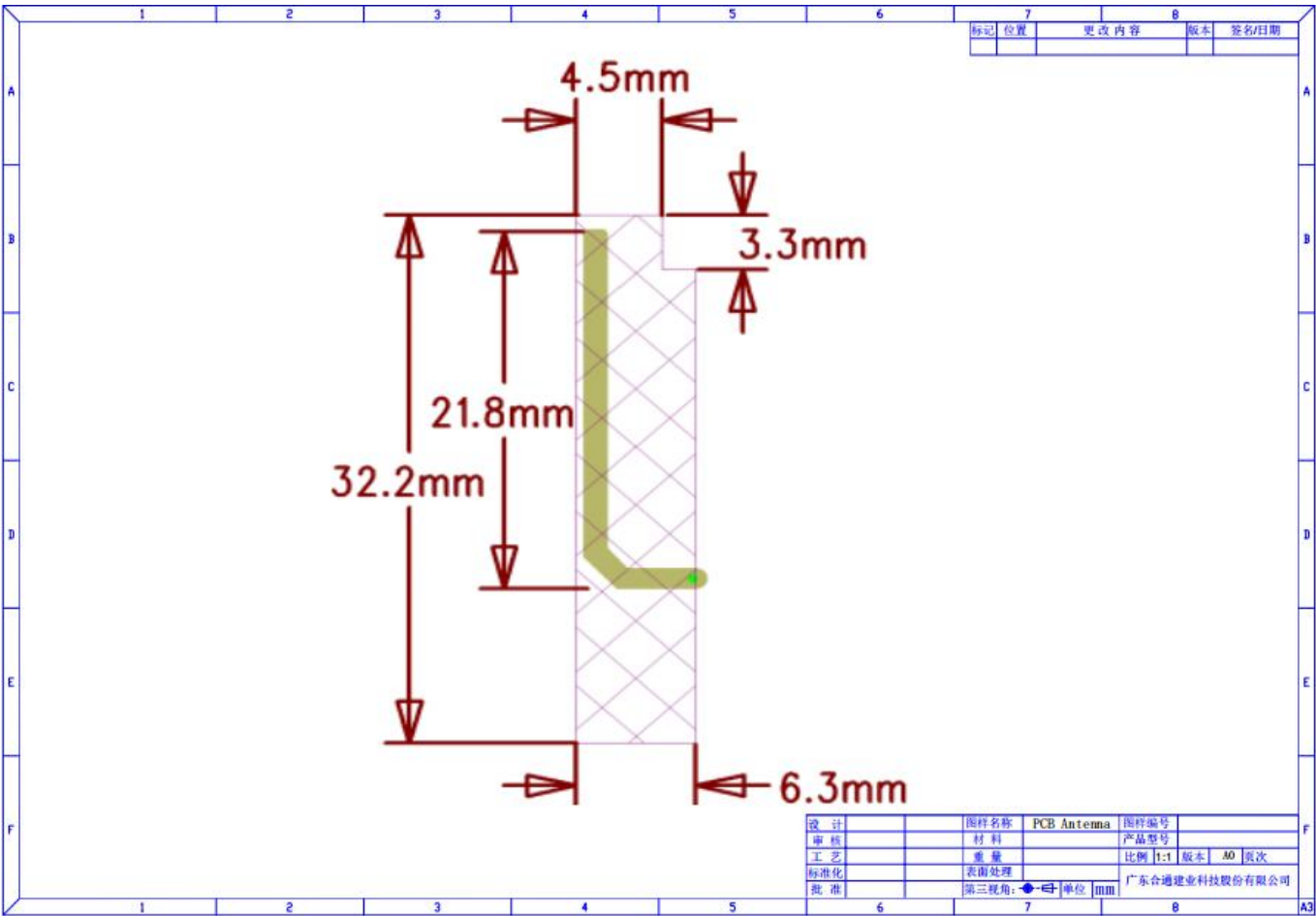
Production Number

TK053-MainBoard-PCB antenna

Supplier Signature		
Engineer	Checked by	Approved by
刘广金	谢倩菊	杨敬松
June 12, 2025	June 12, 2025	June 12, 2025

Customer Signature		
Engineer	Checked by	Approved by
陆瀛文	李宽荣	朱志云
June 12, 2025	June 12, 2025	June 12, 2025

一、Product Structure Dimensions (mm)



二、Product Image



三、Antenna Gain Parameter

 Guangzhou Gaoke Zhongshi Communication Technology Co., Ltd									
Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0
Efficiency (dBi)	-2.58	-2.52	-2.68	-3.09	-2.83	-3.60	-2.84	-3.11	-3.22
Gain (dBi)	1.62	1.72	1.72	1.83	1.88	1.66	1.62	1.51	1.49
Efficiency (%)	55.23	56.03	53.90	49.10	52.12	43.61	51.98	48.88	47.62
Directivity (dB)	4.20	4.24	4.40	4.92	4.71	5.26	4.46	4.62	4.71
Peak Gain Position (Theta)	45.00	75.00	75.00	45.00	75.00	75.00	45.00	45.00	45.00
Peak Gain Position (Phi)	285.00	0.00	0.00	285.00	0.00	0.00	285.00	285.00	285.00
Efficiency ThetaPol (%)	33.16	33.48	32.07	27.08	31.43	26.34	30.12	27.86	26.89
Efficiency PhiPol (%)	22.07	22.55	21.83	22.03	20.69	17.27	21.86	21.02	20.73
Upper Hem. Efficiency (%)	31.96	32.28	30.92	29.97	29.64	23.01	31.10	29.53	28.99
Lower Hem. Efficiency (%)	23.26	23.75	22.98	19.13	22.48	20.60	20.88	19.35	18.64
T90(H)圆度	8.89	8.44	8.18	9.46	8.10	8.66	10.11	10.04	10.08
Gain 15deg (dBi)									
E1(XZ)波瓣宽度	75.00	73.00	71.00	42.00	72.00	76.00	109.00	111.00	70.00
E1(XZ)前后比	2.41	2.54	2.67	2.21	2.75	4.15	2.52	2.57	2.49
E2(YZ)波瓣宽度	52.00	52.00	51.00	52.00	54.00	75.00	53.00	54.00	54.00
E2(YZ)前后比	1.83	2.07	2.23	1.60	2.31	1.45	2.25	2.28	2.15
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
顶点(Theta=0)处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
仰角10度最差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣宽度	47.00	46.00	47.00	63.00	134.00	115.00	90.00	60.00	60.00
Hc(XY)前后比	0.00	0.00	0.00	0.00	0.07	1.09	0.03	0.00	0.00
Empty									

四、Antenna Pattern (2D & 3D)

