

SuZhou Booming-Tek Electronics Technology	Product Specification		
	P/N: 81800V007	Rev.: X1	Page: 1 / 9

承认书

客户名称	漳州立达信光电科技有限公司
项目名称	空气炸锅
客户料号	2032910140
产品描述	IoT-天线_2.4G_FPC+Cable_RO_32AWG_70mm

客户确认：叶玉婷

日期：2022-09-16

SuZhou Booming-Tek Electronics Technology	Product specification		
	P/N: 81800V007	Rev.: X1	Page: 2 / 9

1. Antenna specification/天线标准

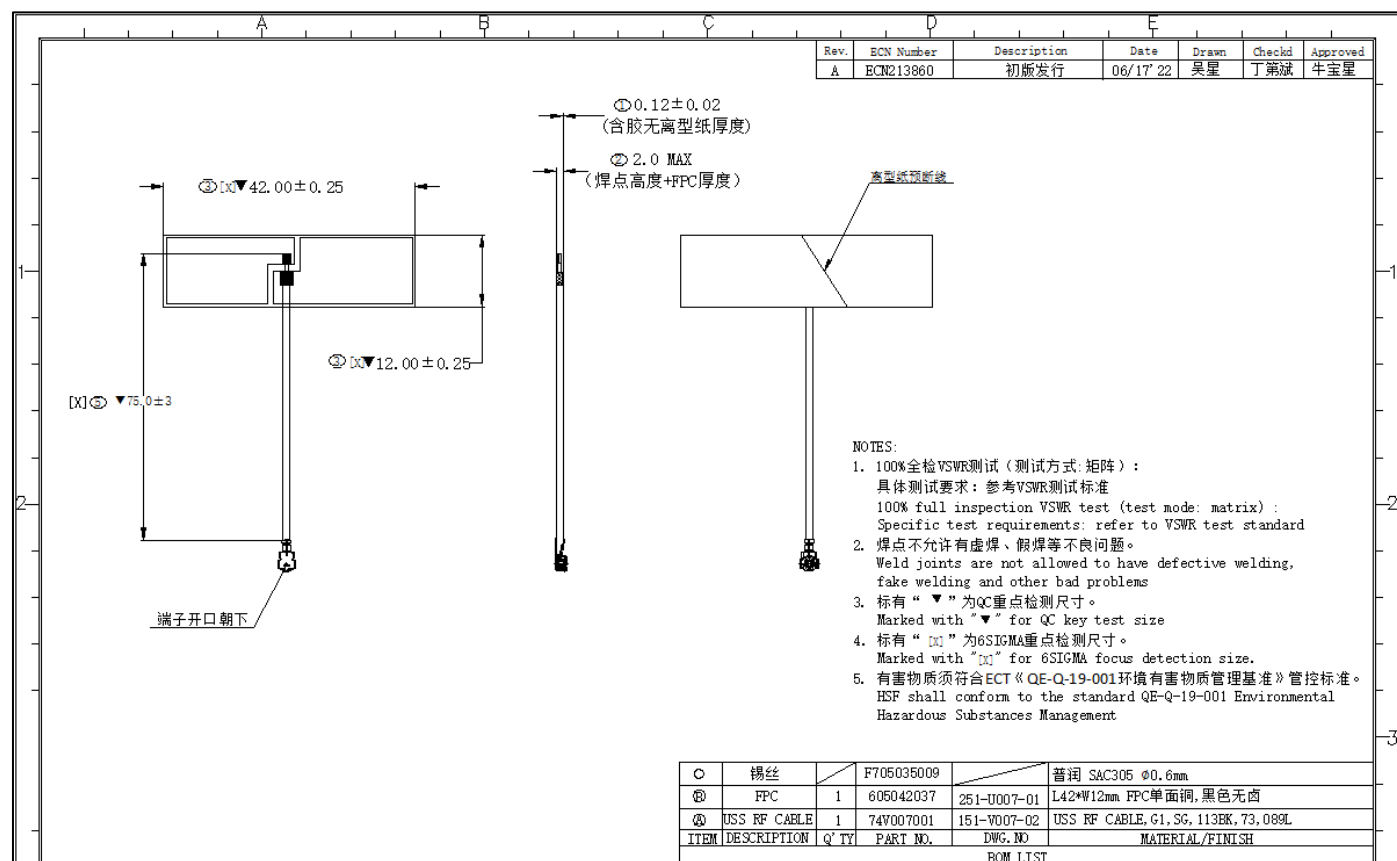
Antenna specification/天线技术参数		
Electrical specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. range/频段范围	2400-2500 (MHz)	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	≤5.0	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak gain/峰值增益	0.924 (dBi)	
Test condition/测试条件	passive test (无源测试)	
Total efficiency/无源效率	> 35%	
Mechanical Specification/机械指标		
Antenna type/天线类型	FPC + Cable	
Connector type/连接器类型	USS RF PLUG 1 代端子	
RF cable type/射频线型号	USS RF Coaxial Cable,32AWG D=1.13(S+T)黑色	
Connector torque test/连接器扭力	N/A	
Connector pull test/连接器拉力	≥1.0Kgf	
Salt spray/盐雾测试	48 (H)	
Environmental specification /环境指标		
Operating temp/工作温度	-40°C ~ +80°C	
Storage temp/存储温度	-40°C ~ +85°C	

SuZhou Booming-Tek Electronics Technology	Product specification		
	P/N: 81800V007	Rev.: X1	Page: 3 / 9

2. Antenna picture/天线图片

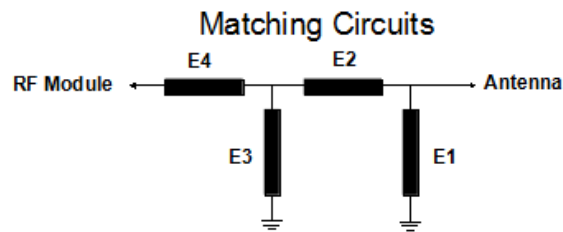


3. DWG/工程图纸



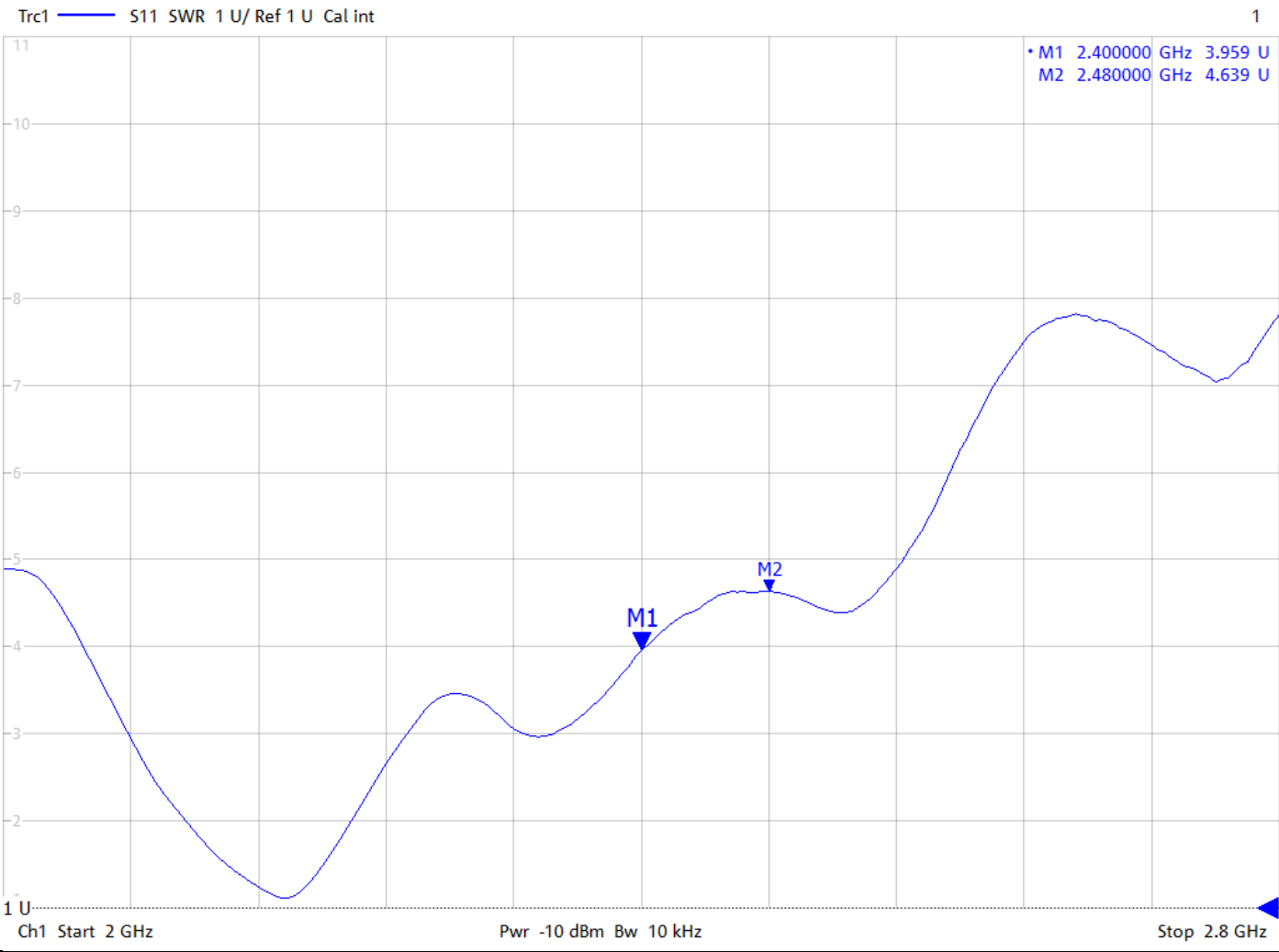
4. Antenna test result/测试结果

4.1 The matching circuits/匹配电路



Element	Value
E1(0201)	NC
E2(0201)	0 Ω
E3(0201)	NC
E4(0201)	0 Ω

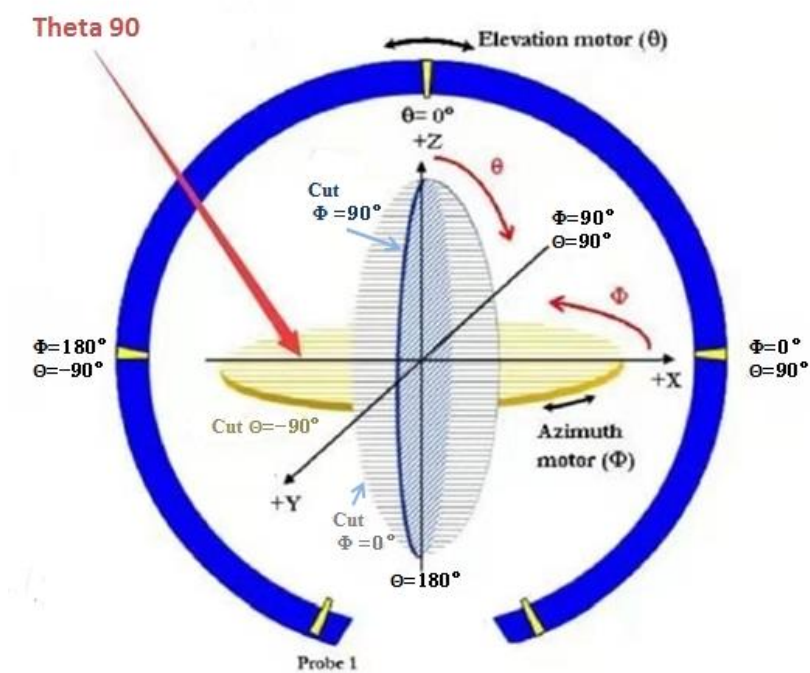
4.2 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比



SuZhou Booming-Tek Electronics Technology	Product specification		
	P/N: 81800V007	Rev.: X1	Page: 6 / 9

4.3 The gain and total efficiency test/增益和效率测试

4.3.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



The production test position/天线测试放置位置

SuZhou Booming-Tek Electronics Technology	Product specification		
	P/N: 81800V007	Rev.: X1	Page: 7 / 9

4.3.2 The test result of total efficiency and total gain/天线效率及增益测试结果

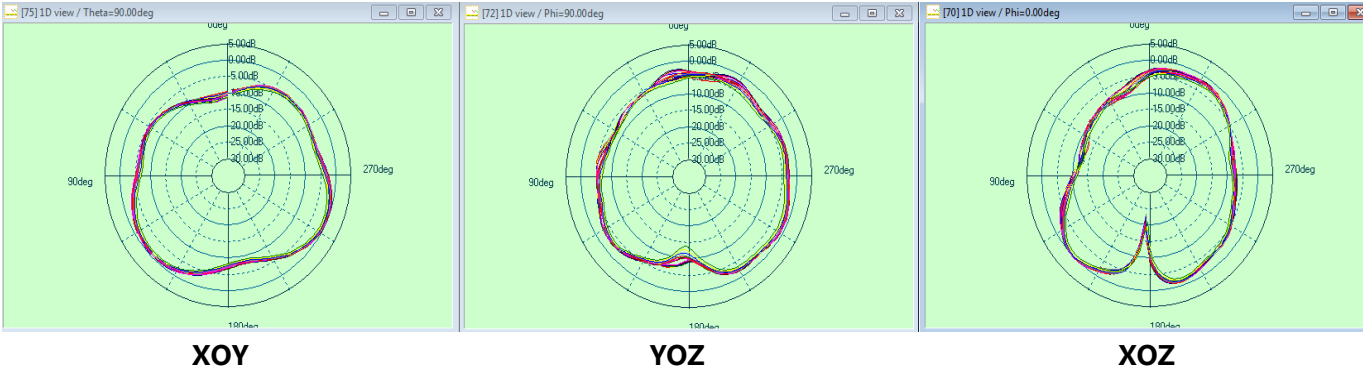
2400MHz-2500MHz

Frequency	Efficiency(%)	Gain (dBi)
2400MHz	42%	0.92
2405MHz	42%	0.84
2410MHz	43%	0.90
2415MHz	46%	0.97
2420MHz	47%	0.96
2425MHz	47%	0.88
2430MHz	46%	0.78
2435MHz	46%	0.69
2440MHz	44%	0.42
2445MHz	41%	0.24
2450MHz	39%	0.09
2455MHz	39%	0.05
2460MHz	40%	0.19
2465MHz	43%	0.43
2470MHz	44%	0.53
2475MHz	44%	0.52
2480MHz	43%	0.33
2485MHz	42%	0.24
2490MHz	40%	-0.02
2495MHz	37%	-0.31
2500MHz	35%	-0.58
AVG	42%	0.43

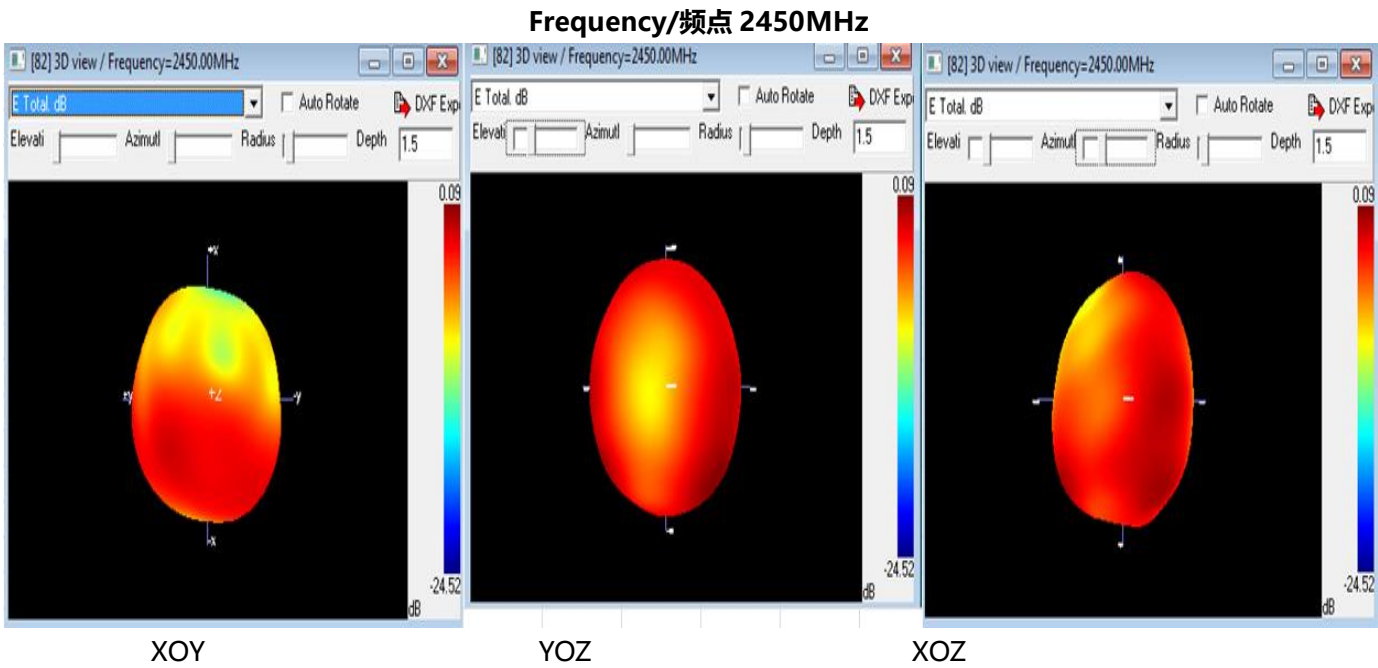
SuZhou Booming-Tek Electronics Technology	Product specification		
	P/N: 81800V007	Rev.: X1	Page: 8 / 9

4.3.3 The antenna radiation pattern(1D View)/天线辐射方向图 (1D View)

2400MHz-2500MHz



4.3.4 The antenna radiation pattern(3D View)/天线辐射方向图 (3D View)



5. DWG/包规图纸

