

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

# 承认书

客户名称	漳州立达信光电子科技有限公司
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

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

## 1. Antenna specification/天线标准

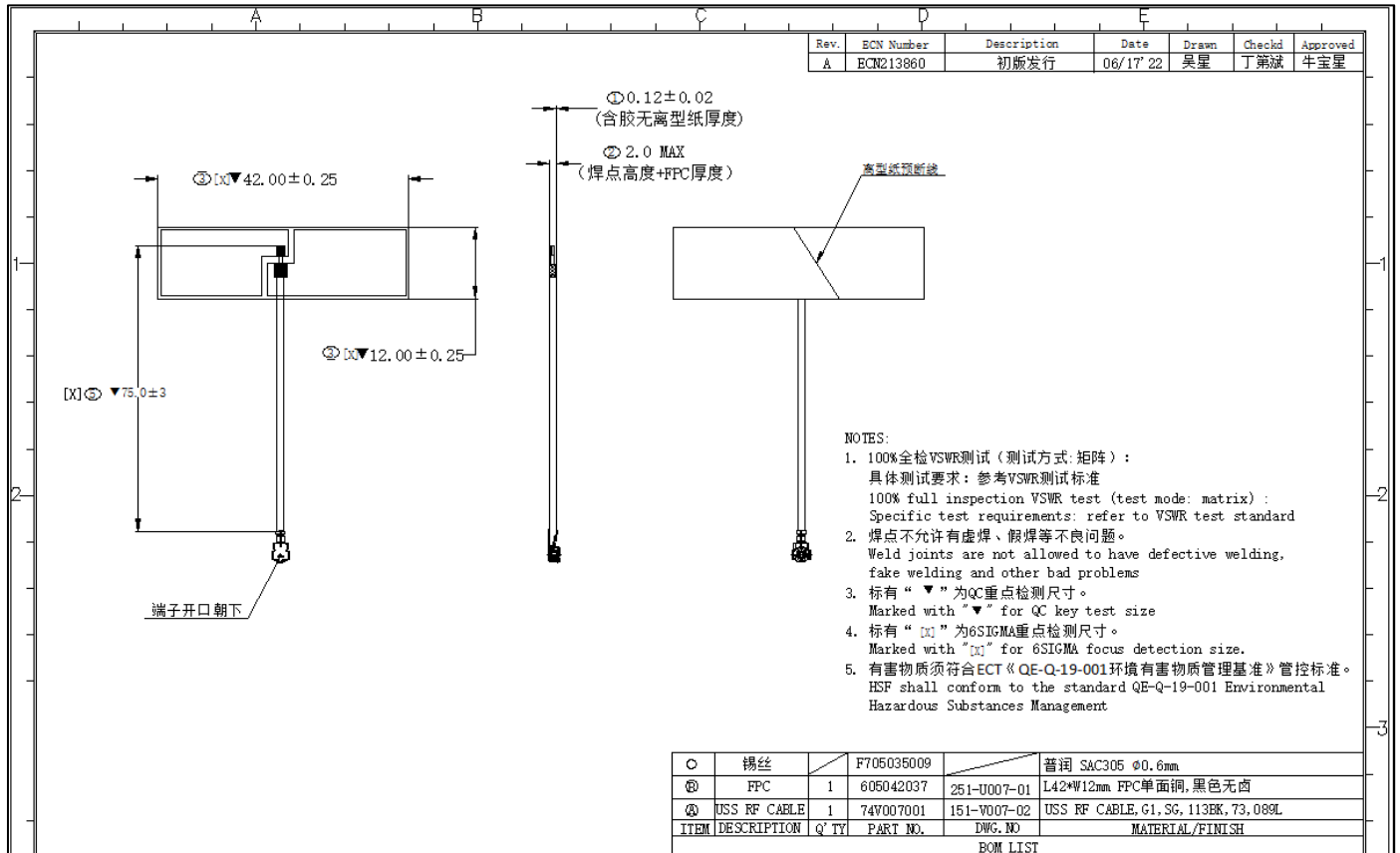
Antenna specification/天线技术参数		
Electrical specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. range/频段范围	2400-2500 (MHz)	
Impedance/阻抗	50 ( $\Omega$ )	
VSWR/驻波比	$\leq 5.0$	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak gain/峰值增益	0.924 (dBi)	
Test condition/测试条件	passive 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	$\geq 1.0\text{Kgf}$	
Salt spray/盐雾测试	48 (H)	
Environmental specification /环境指标		
Operating temp/工作温度	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
Storage temp/存储温度	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	

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

## 2. Antenna picture/天线图片

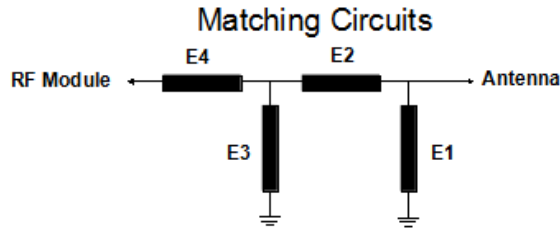


## 3. DWG/工程图纸



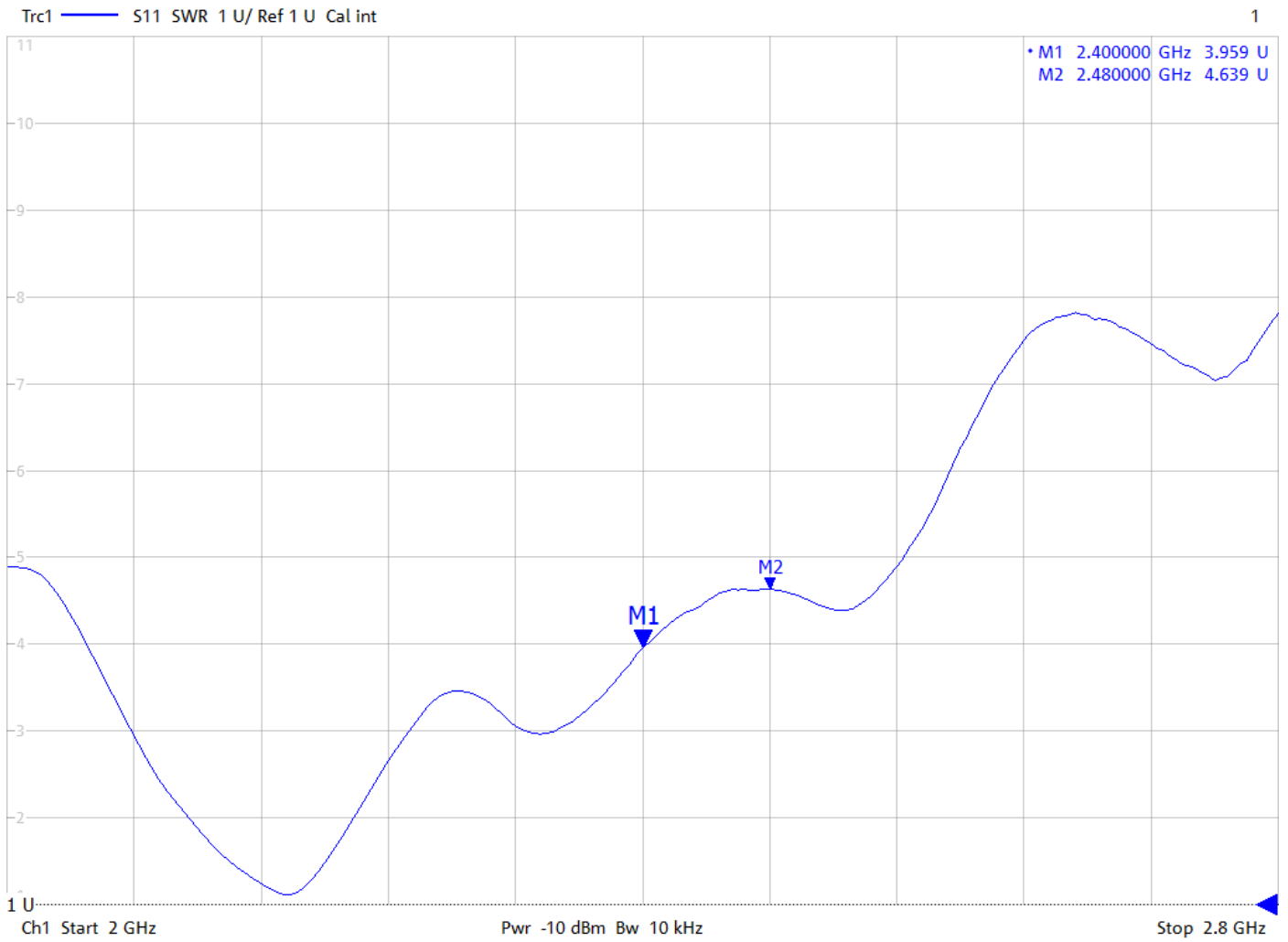
**4. Antenna test result/测试结果**

**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**



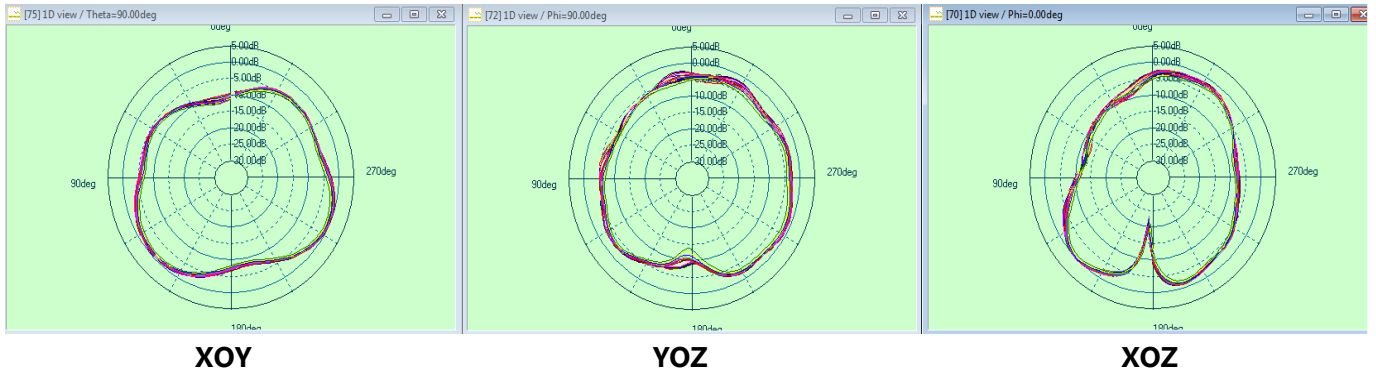


**4.3.2 The test result of total efficiency and total gain/天线效率及增益测试结果****2400MHz-2500MHz**

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

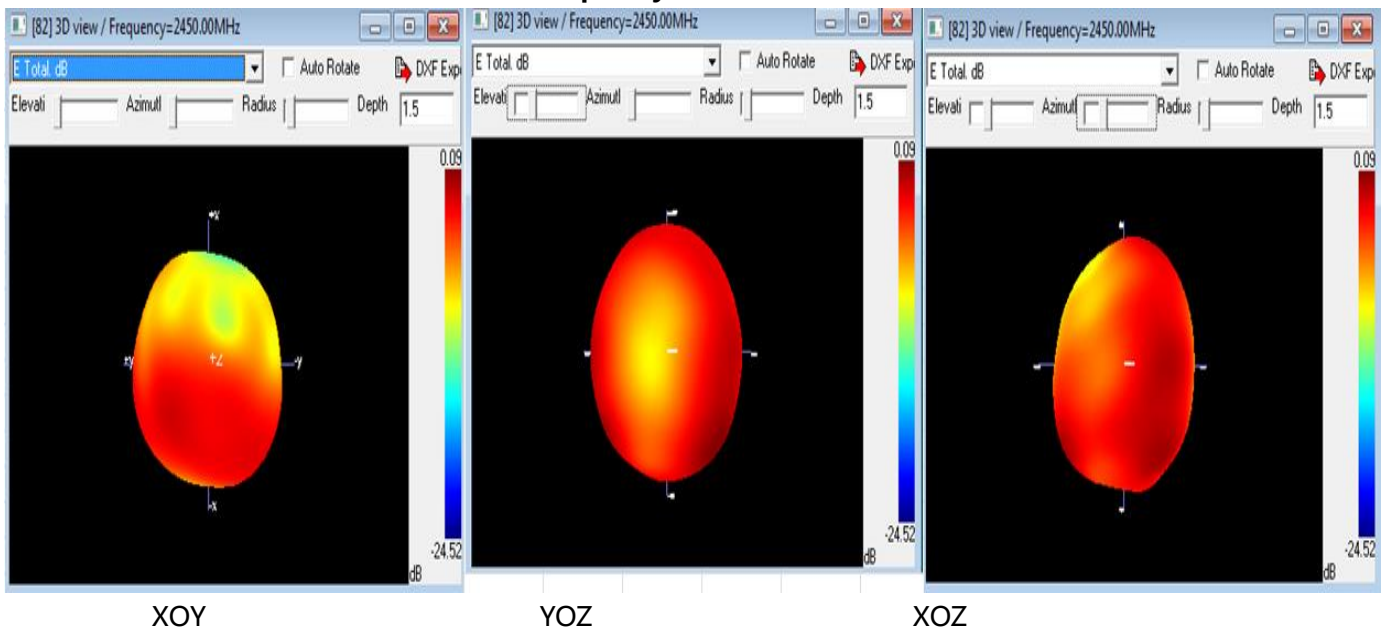
**4.3.3 The antenna radiation pattern(1D View)/天线辐射方向图 (1D View)**

**2400MHz-2500MHz**



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

**Frequency/频点 2450MHz**





## 5. DWG/包规图纸

