

主天线规格书

Main antenna specification

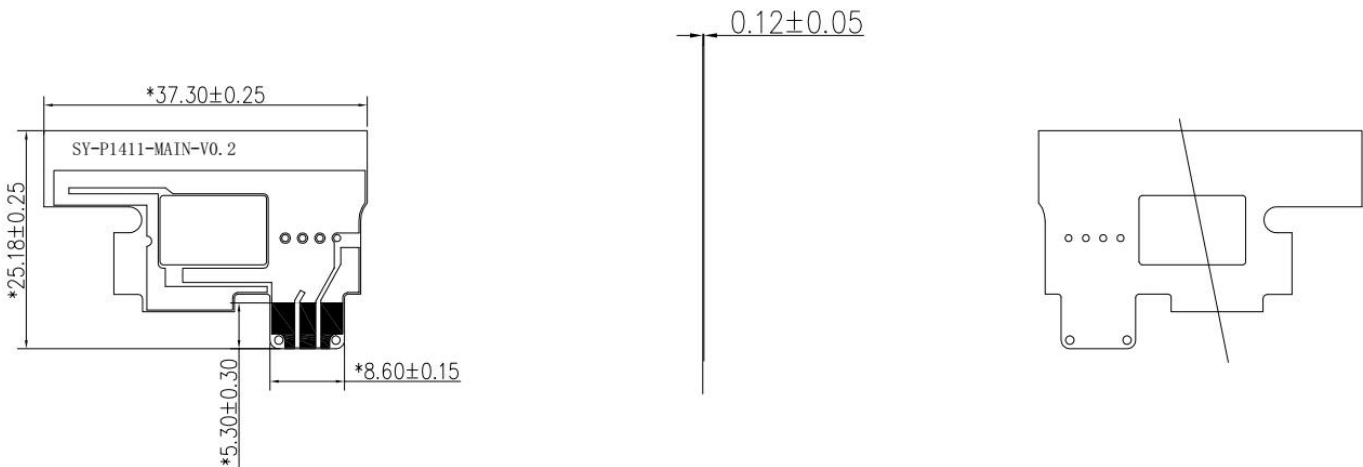
基本信息

General information

制造商 Manufacturer	SunnyWay Technology Co.,Ltd
天线型号 Model Name	P1411-main ant
日期 Date	2024.1.22
版本 Version	1.0
制造商地址 Vendor address	1F, Building 4, No. 99, Lane 215, Gaoguang Road, Qingpu District, Shanghai

天线外观

Antenna Appearance



技术规格

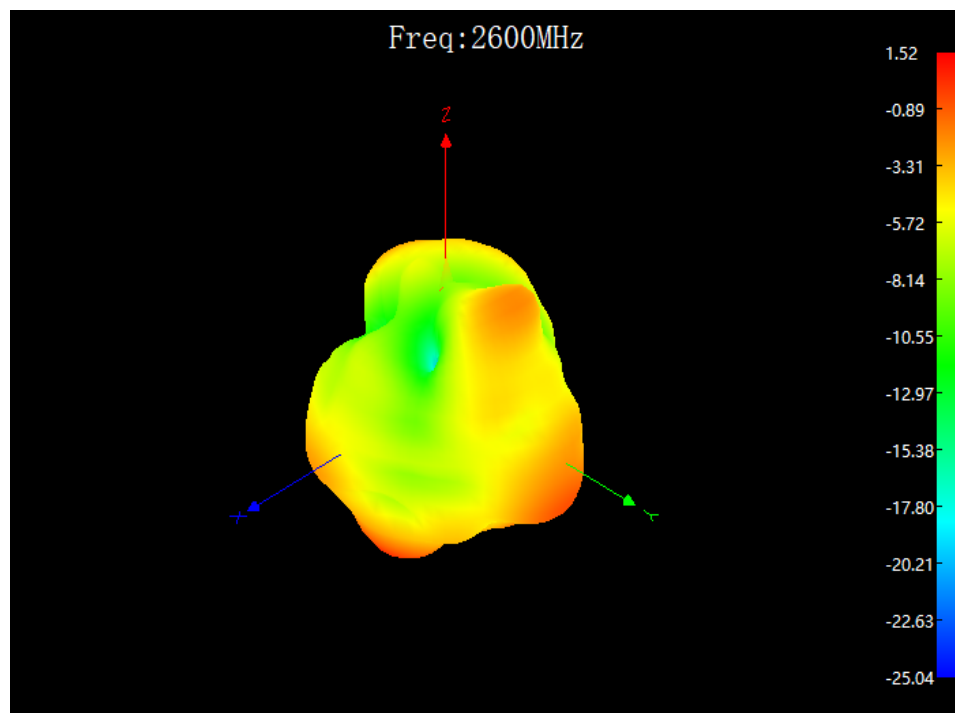
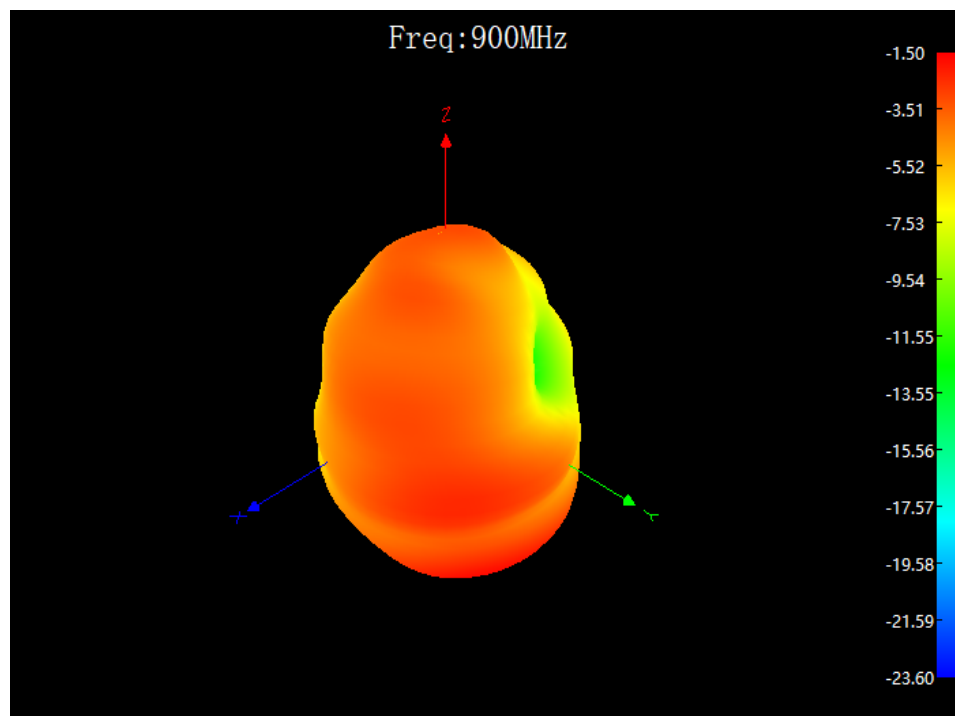
Technical Specifications

频率范围 Frequency Range	700MHZ-960MHZ+1710MHZ-2690MHZ
天线类型 Antenna Type	IFA
尺寸 Dimensions	38.61*27.33mm
阻抗 Impedance	50 ohm
最大增益 Maximum Gain	2.1dbi
驻波比 VSWR	≤ 3
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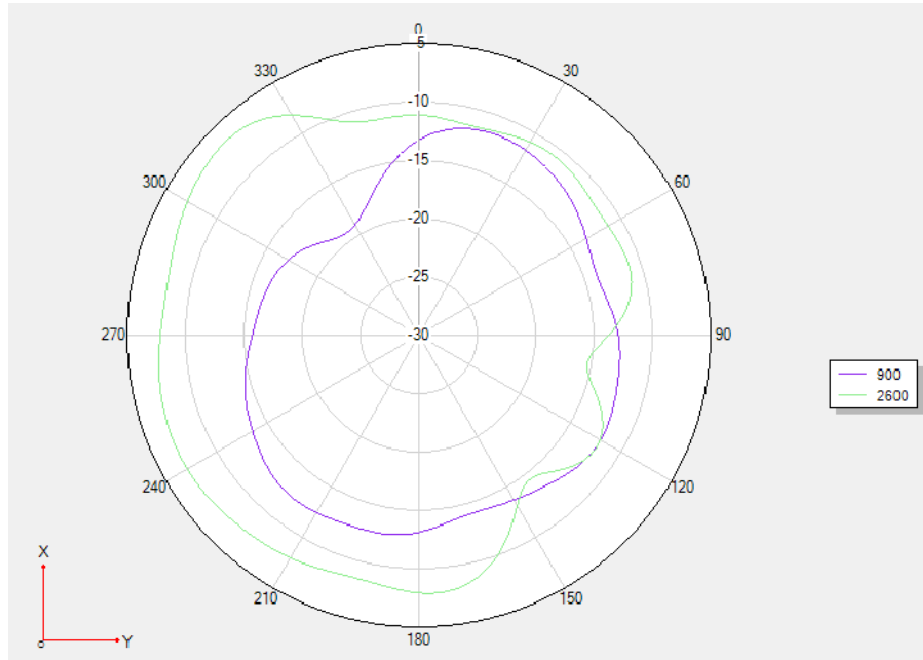
Efficiency and gain

Frequency (MHz)	Gain(dB)	Efficiency(%)	Frequency (MHz)	Gain(dB)	Efficiency(%)
700	-2.4	18.15	1700	1.84	35.65
750	-1.3	20.73	1750	1.43	35.65
800	-0.21	29.59	1800	1.8	34.99
850	-0.51	25.92	1850	1.69	34.91
900	-1.5	20.04	1900	2.07	36.22
950	-2.3	18.34	1950	2.08	35.89
1000	-2.6	15.24	2000	1.93	36.22
			2050	1.97	34.67
			2100	2.1	34.59
			2150	1.46	33.81
			2200	1.22	35.24
			2250	1.46	34.12
			2300	1.79	33.11
			2350	1.49	34.83
			2400	1.99	34.51
			2450	1.68	33.27
			2500	1.8	32.89
			2550	1.75	31.84
			2600	1.93	30.97
			2650	1.81	30.48
			2700	1.52	30.06

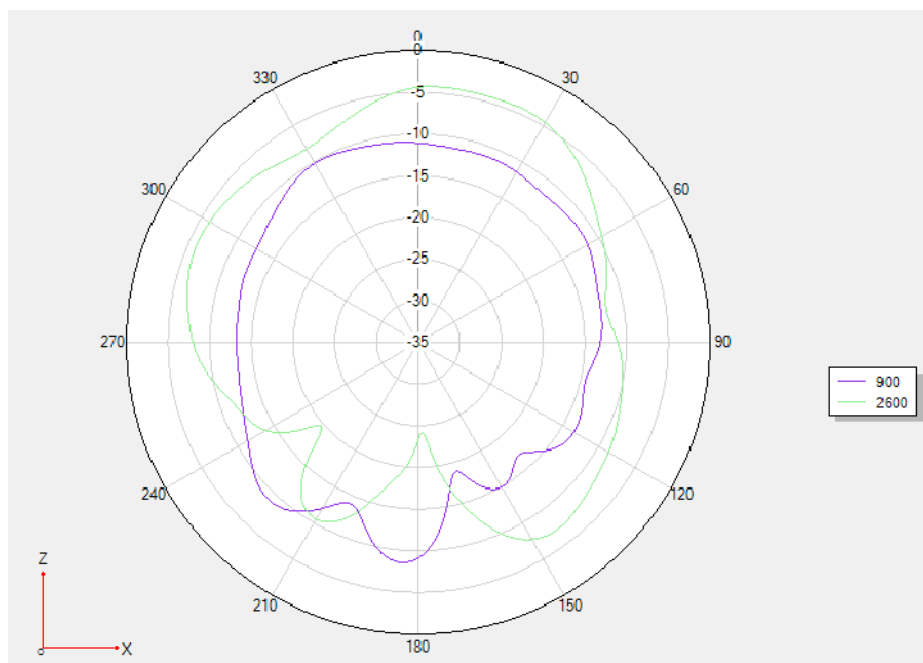
Free space 3D radiation pattern



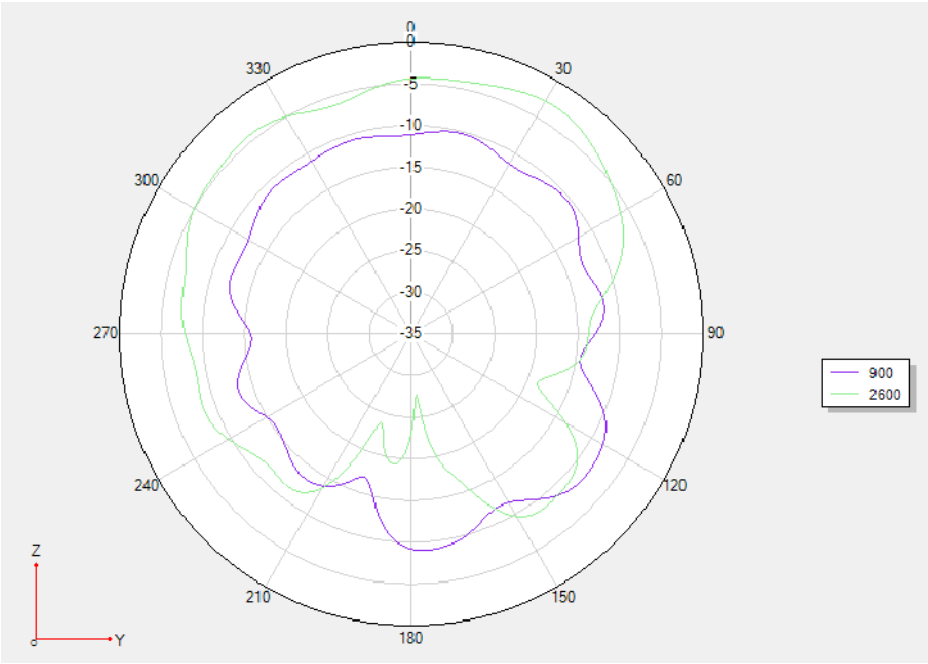
X-Y Plane H Theta=90



X-Z Plane V Phi=0



Y-Z Plane
V Phi=90



有源数据
OTA（TRP TIS）

测试频段	信道	TRP	TIS
GSM850	128	26.19	
	190	26.47	
	251	26.38	-101.79
GSM900	975	26.74	
	38	26.68	
	124	25.64	-101.13
GSM1800	512	25.86	
	698	25.21	
	885	25.04	-104.16
GSM1900	512	25	
	661	25.53	
	810	25.49	-104.65

WCDMA-B1	9612	18.91	
	9750	18.8	
	9888	18.58	-104.67
WCDMA-B2	9662	18.29	
	9800	18.16	
	9938	18.05	-104.55
WCDMA-B4	1537	18.31	
	1638	18.3	
	1738	18.07	-104.3
WCDMA-B5	4387	17.34	
	4400	17.51	
	4413	17	-103.33
WCDMA-B8	2712	17.8	
	2788	17.24	
	2863	16.64	-103.66

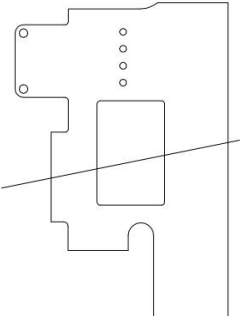
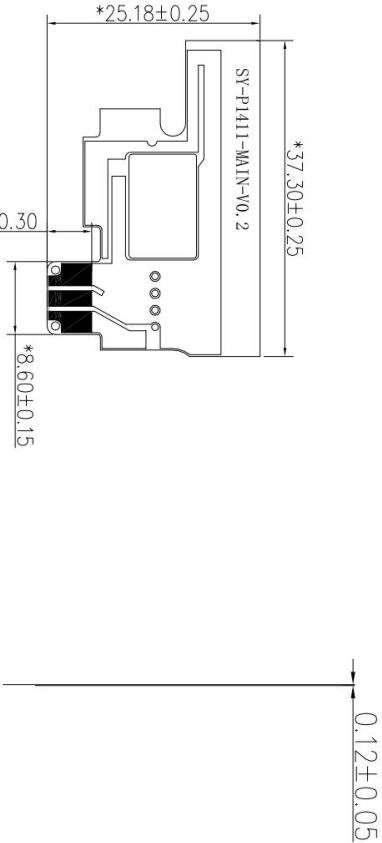
LTE-B1	18050	18.4	
	18300	18.81	
	18550	18.79	-92.6
LTE-B2	18650	18.74	
	18900	18.55	
	19150	18.51	-93.01
LTE-B3	19250	18.59	
	19575	18.34	
	19900	18.29	-94.31

LTE-B4	20000	18.46	
	20175	18.53	
	20350	18.33	-93.15
LTE-B5	20450	16.75	
	20525	17.25	
	20600	17	-90.58
LTE-B7	20800	19.17	
	21100	19.12	
	21400	19.27	-93.33
LTE-B12	23060	15.68	
	23095	16.15	
	23130	16.31	-88.54
LTE-B17	23780	15.58	
	23790	16.03	
	23800	16.14	-88.75
LTE-B25	26090	18.68	
	26365	18.54	
	26640	18.53	-92.31
LTE-B26	26740	17.54	
	26865	17.2	
	26990	17	-91.07
LTE-B28	27260	16	
	27435	16.19	
	27610	16.31	-88.59
LTE-B38	37850	18.37	
	38000	19.34	
	38150	19.06	-90.29
LTE-B41	40340	18.3	
	40740	18.77	
	41140	18.78	-90.6

ROHS2.0、REACH

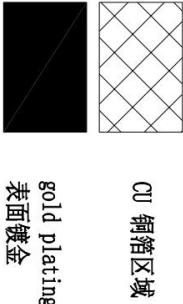
Silk screen white
characters 白字

5	6	7
版本	修改内容	修改人 日期



Technical requirement技术要求

- 1.1. Shipping and packaging requirements: (single PCS packaging and shipping) 出货包装要求: (单PCS包装出货)
2. Copper moor surface black ink; 铜泊表面黑色油墨;
3. The ink should be uniform; 油墨要均匀;
4. The size with "*" symbol is the key size; 带"*"符号尺寸为重点尺寸;
5. Back glue with TESA 68905; 背胶用TESA 68905 ;
6. The substrate uses PI T=1Mil; 基材使用PI T=1Mil;
7. Copper foil thickness 0.5oz; 铜箔厚0.5oz;
8. Gold plating thickness 0.5 wheat, 48 hours salt spray; 镀黄金厚0.5麦, 48小时盐雾;
9. The unpoured fillet Angle is 0.2, and the process edge is 0.2mm; 未注倒圆角均为0.2, 工艺沿边为0.2mm;
10. No tolerance is indicated according to the general tolerance table; 未注公差按一般公差表;
11. The products meet the requirements of ROHS2.0 and REACH. 产品符合ROHS2.0、REACH要求。



Sunnyway Technology Co., Ltd				
		PART NAME: P1411 main antenna	DATE: 2023.9.15	
TOLERANCE X.X ±0.20 .XX ±0.10 .XXX±0.05 ANGULAR ≤±0.5°		PART NO: SH232961B75-1	DRAWN: YUJIANG	
		MATERIAL:	CHECKED: ZHANGTU	
UNIT: mm		FINISHING:	APPROVED:	
COLOUR: 黑色		SCALE: 1:1	REV:	