

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	P1611
日期 Date	2024.3.21
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

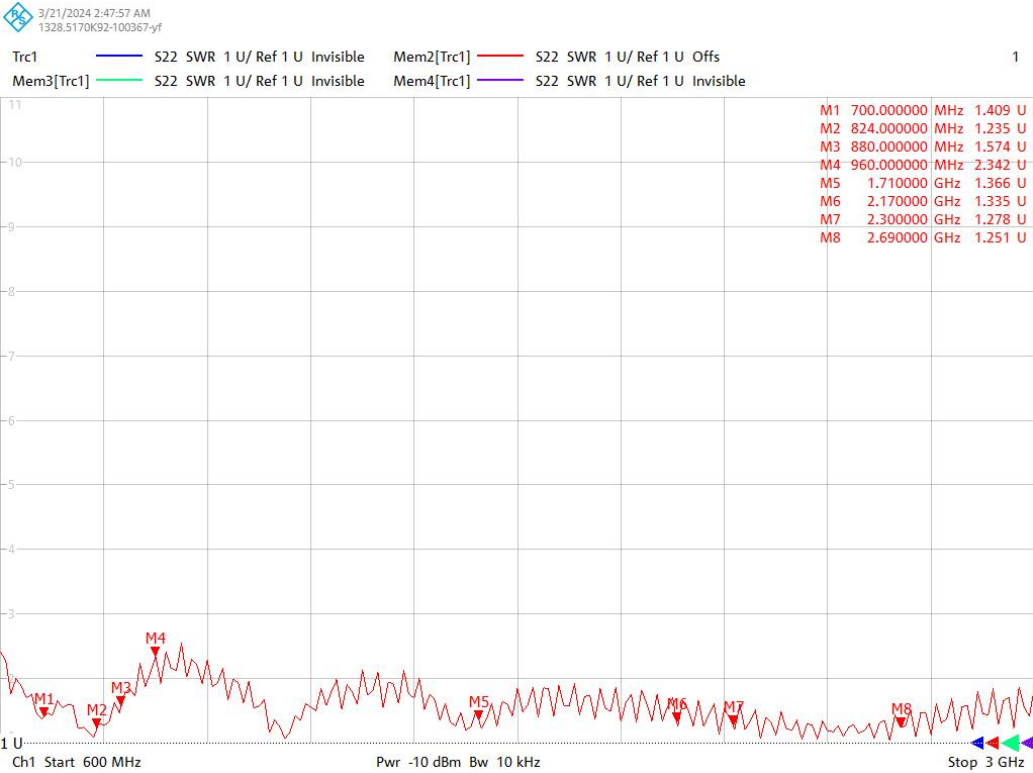


技术规格

Technical Specifications

频率范围 Frequency Range	700MHZ-960MHZ+1710MHZ-2690MHZ
天线类型 Antenna Type	PIFA
尺寸 Dimensions	38.61*27.33mm
阻抗 Impedance	50 ohm
最大增益 Maximum Gain	2.2dbi
驻波比 VSWR	≤ 3
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VSWR



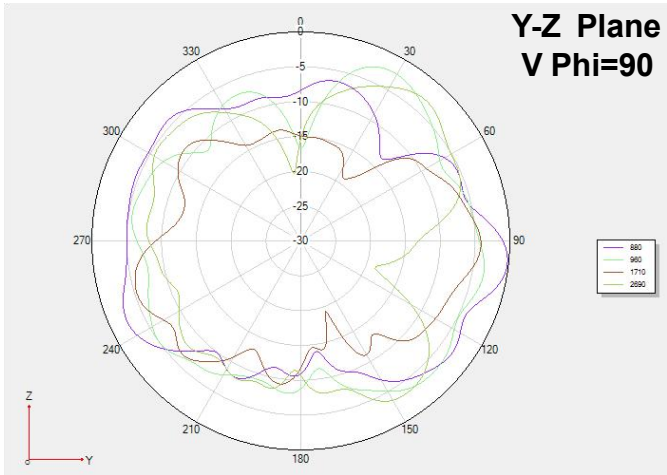
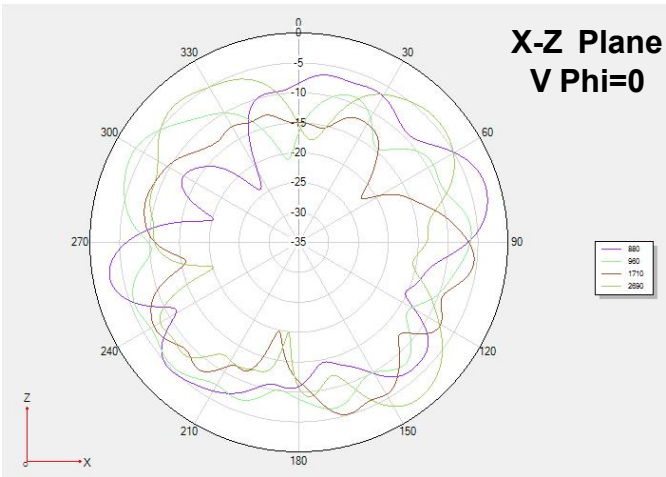
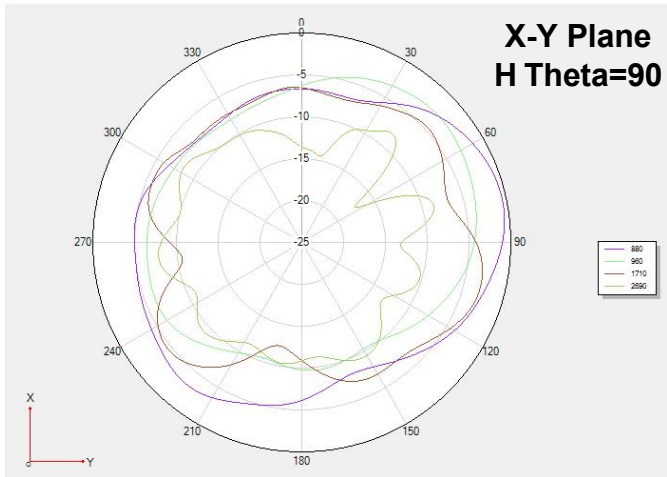
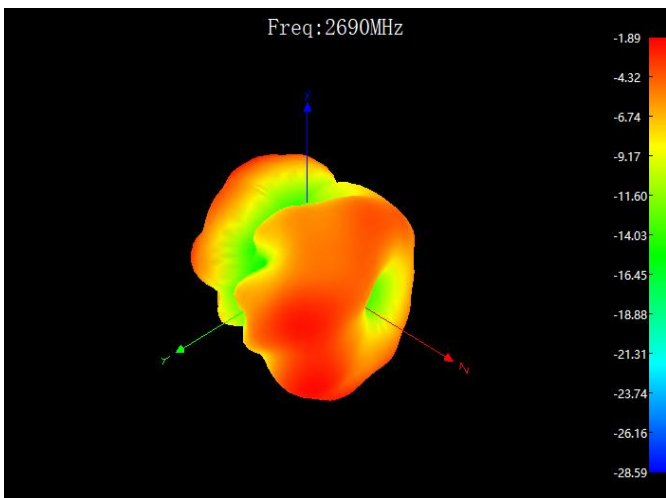
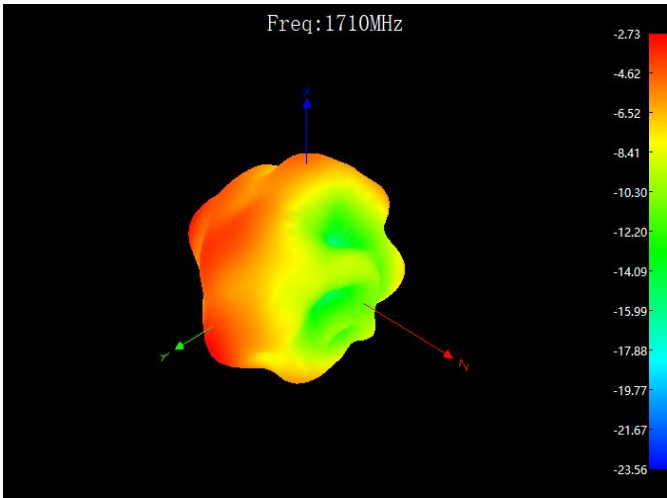
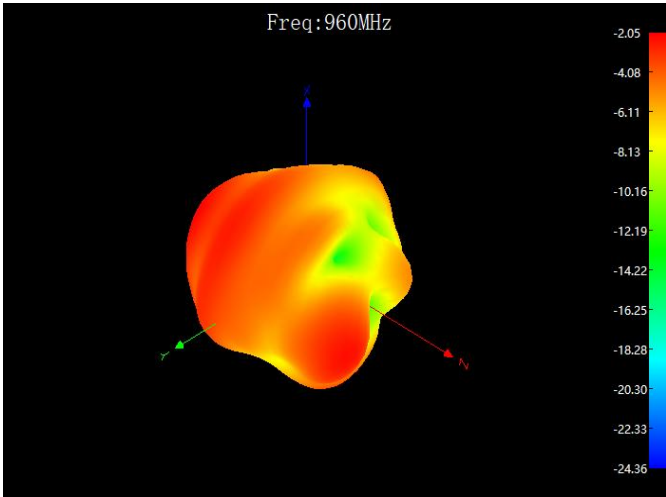
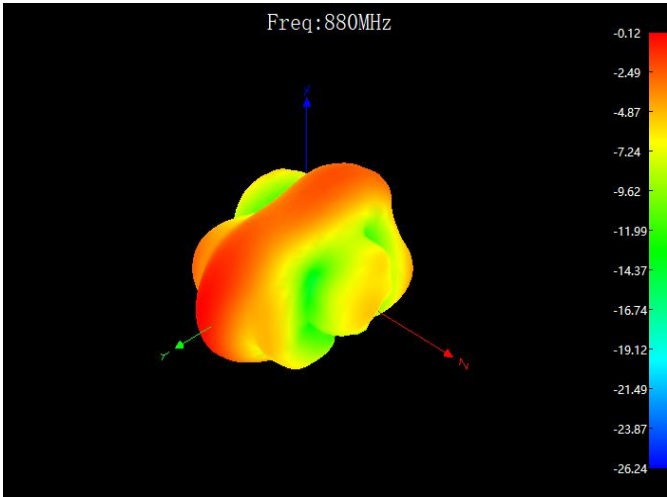
Efficiency and gain

Frequency /Mhz	Efficiency / dB	Efficiency / %	MaxGain/ dBi	Frequency /Mhz	Efficiency / dB	Efficiency / %	MaxGain/ dBi	Frequency /Mhz	Efficiency / dB	Efficiency / %	MaxGain/ dBi
700	-5.72	26.79	0.64	1710	-7.81	16.56	-2.73	1980	-8	15.85	-2.87
710	-5.88	25.82	1.03	1720	-8	15.85	-2.83	1990	-8.09	15.52	-2.74
720	-6.54	22.18	0.58	1730	-8.07	15.6	-2.93	2000	-8.15	15.31	-2.53
730	-6.9	20.42	-0.18	1740	-7.95	16.03	-2.83	2010	-8.04	15.7	-2.38
740	-6.77	21.04	0.29	1750	-7.82	16.52	-3.29	2020	-8.13	15.38	-2.85
750	-6.85	20.65	0.23	1760	-7.87	16.33	-3.39	2030	-8.35	14.62	-3.02
760	-6.74	21.18	0.51	1770	-7.73	16.87	-3.14	2040	-8.23	15.03	-3.06
770	-6.31	23.39	0.88	1780	-7.52	17.7	-2.91	2050	-8.26	14.93	-2.61
780	-5.57	27.73	1.6	1790	-7.82	16.52	-3.3	2060	-8.37	14.55	-2.41
790	-4.99	31.7	2.16	1800	-8.02	15.78	-3.78	2070	-7.96	16	-2.21
800	-4.79	33.19	1.07	1810	-7.96	16	-4.14	2080	-7.93	16.11	-2.56
810	-4.46	35.81	0.86	1820	-7.89	16.26	-3.91	2090	-8.26	14.93	-3.19
820	-4.45	35.89	0.55	1830	-8.29	14.83	-3.7	2100	-7.96	16	-2.35
830	-4.8	33.11	0.31	1840	-8.23	15.03	-3.64	2110	-7.97	15.96	-2.56
840	-4.93	32.14	0.49	1850	-8.08	15.56	-3.63	2120	-8.29	14.83	-2.63
850	-5.08	31.05	0.24	1860	-8.25	14.96	-3.19	2130	-8.61	13.77	-2.77
860	-5.29	29.58	-1.02	1870	-8.28	14.86	-2.97	2140	-8.44	14.32	-3.22
870	-5.41	28.77	-1.07	1880	-8.16	15.28	-2.83	2150	-8.69	13.52	-3.51
880	-5.73	26.73	-0.12	1890	-8.16	15.28	-2.78	2160	-8.96	12.71	-3.53
890	-6	25.12	0.35	1900	-8.1	15.49	-2.78	2170	-8.78	13.24	-4.12
900	-6.29	23.5	0.45	1910	-7.96	16	-2.96	2180	-8.41	14.42	-3.49
910	-6.46	22.59	0.51	1920	-7.9	16.22	-2.84	2190	-8.54	14	-3.25
920	-6.55	22.13	0.48	1930	-8.05	15.67	-2.89	2200	-8.3	14.79	-3.64
930	-6.18	24.1	0.75	1940	-7.85	16.41	-2.39	2210	-8.15	15.31	-3.24
940	-6.15	24.27	0.63	1950	-7.72	16.9	-2.32	2220	-8.24	15	-3.28
950	-6.57	22.03	-0.56	1960	-8.09	15.52	-2.94	2230	-8.09	15.52	-3.59
960	-7.2	19.05	-2.05	1970	-8.04	15.7	-3.01	2240	-8.33	14.69	-3.17

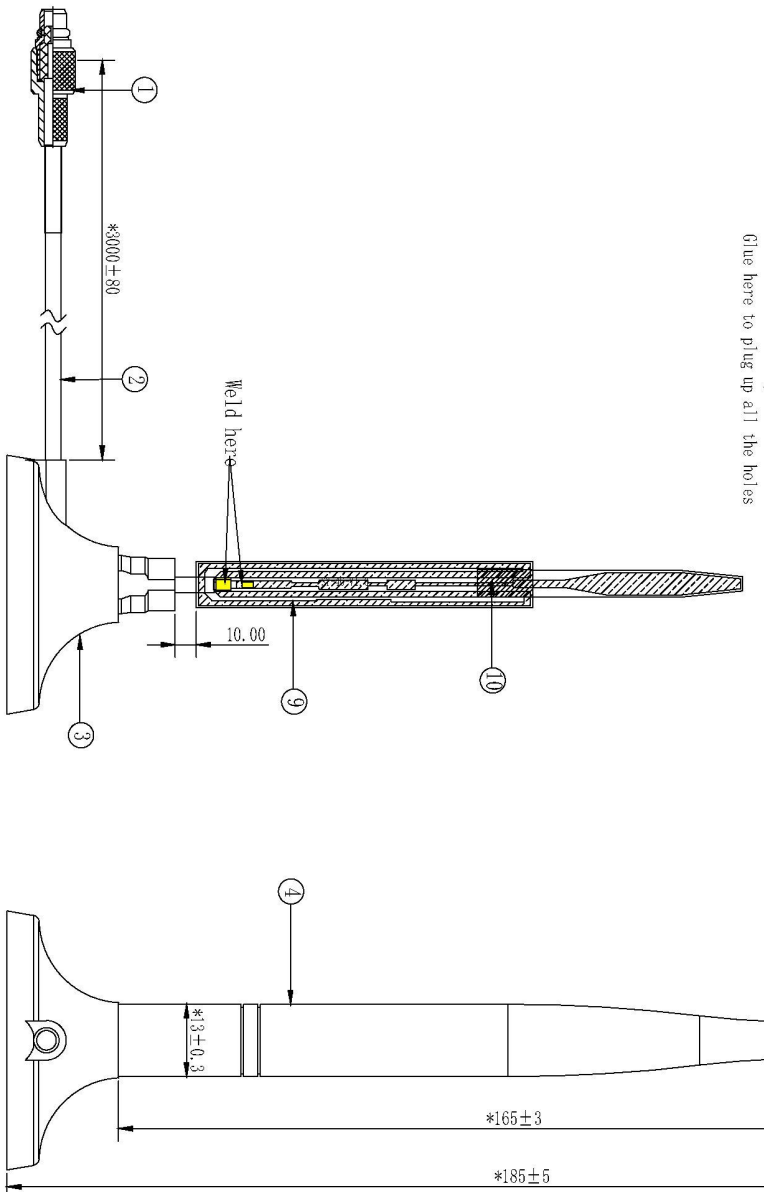
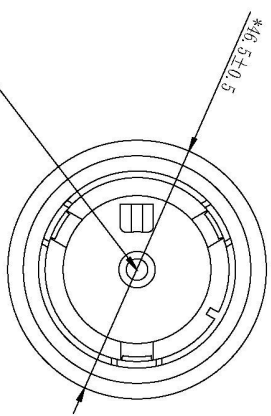
Efficiency and gain

Frequenc y/Mhz	Efficiency / dB	Efficiency / %	MaxGain/ dBi	Frequenc y/Mhz	Efficiency / dB	Efficiency / %	MaxGain/ dBi
2250	-8.56	13.93	-3.25	2520	-7.02	19.86	0.75
2260	-8.03	15.74	-2.94	2530	-6.89	20.46	0.29
2270	-7.97	15.96	-2.44	2540	-6.95	20.18	0.21
2280	-8.27	14.89	-2.87	2550	-7.1	19.5	-0.97
2290	-7.86	16.37	-2.84	2560	-6.93	20.28	-0.32
2300	-7.46	17.95	-2.1	2570	-6.93	20.28	-0.41
2310	-8.04	15.7	-3.29	2580	-6.85	20.65	-0.49
2320	-8.39	14.49	-2.91	2590	-6.94	20.23	-0.33
2330	-8.08	15.56	-1.97	2600	-6.98	20.04	-0.67
2340	-7.91	16.18	-1.78	2610	-7.1	19.5	-1.03
2350	-8.11	15.45	-2.22	2620	-7.31	18.58	-1.41
2360	-7.94	16.07	-1.77	2630	-7.27	18.75	-1.43
2370	-7.7	16.98	-1.47	2640	-7.39	18.24	-1.06
2380	-7.66	17.14	-1.86	2650	-7.5	17.78	-1.31
2390	-7.69	17.02	-1.09	2660	-7.53	17.66	-1.53
2400	-7.96	16	-1.05	2670	-7.6	17.38	-1.14
2410	-7.8	16.6	-1.76	2680	-8.11	15.45	-2.55
2420	-7.35	18.41	-0.98	2690	-8.09	15.52	-1.89
2430	-7.43	18.07	-0.54				
2440	-7.54	17.62	-1.63				
2450	-7.28	18.71	-0.71				
2460	-7.45	17.99	-0.51				
2470	-7.58	17.46	-1.08				
2480	-7.55	17.58	-0.32				
2490	-7.34	18.45	-0.03				
2500	-7.13	19.36	0.28				
2510	-7.2	19.05	0.82				

Free space 3D radiation pattern



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版本	修改内容	修改人 日期



Item number	Name	Description	Colour	Quantity	Remarks
10	Foam	$1085 \times 8 \text{ mm}$, single-sided adhesive	Black	1	
9	PCB	$T=1 \text{ mm}$, FR4	Black	1	
8	spacer	$T=1.5 \text{ mm}$, galvanized sheet	original	1	
7	metal fastening	$T=2 \text{ mm}$, galvanized sheet	original	1	
6	magnet	$\phi 21.8$, $T=2 \text{ mm}$	original	1	
5	pastor	PC piece	Black	1	
4	subject	$L=165 \text{ mm}$	Black	1	
3	pedestal	$\phi 6.5 \text{ mm}$	Black	1	
2	Line RG174	Line RG174, 3000mm	Black	1	
1	MMCX	male connector	golden	1	

Sunnyway Technology (China) Co., Ltd.

PART NAME : Sucker stick antenna P1611		DATE :	2024.03.28
PART NO : SH2336WB78	DRAWN :	Daheng Yao	
MATERIAL :	CHECKED :	Yuanfang Zhang	
FINISHING :	APPROVED :	Jiang YU	
UNIT : mm	COLOUR : BLACK	SCALE : 1:1	REV : RA

一般公差:	± 0.5
L	± 0.25
X	± 0.10
XX	± 0.05
ANGULAR	$\angle \pm 0.5^\circ$