



Product Specification

P/N: 366N0347

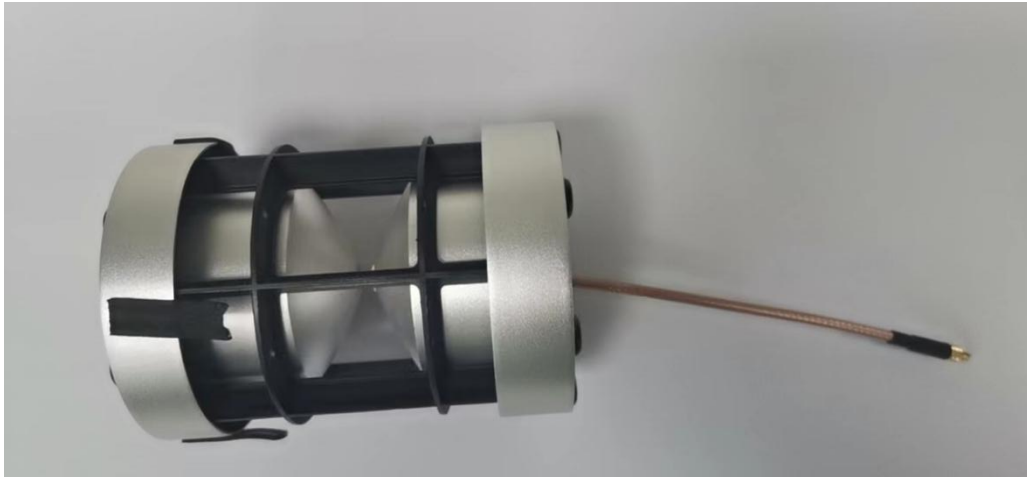
C P/N: 501006802

REV.: X1

Date: 2023/06/19

Protocol: Tom

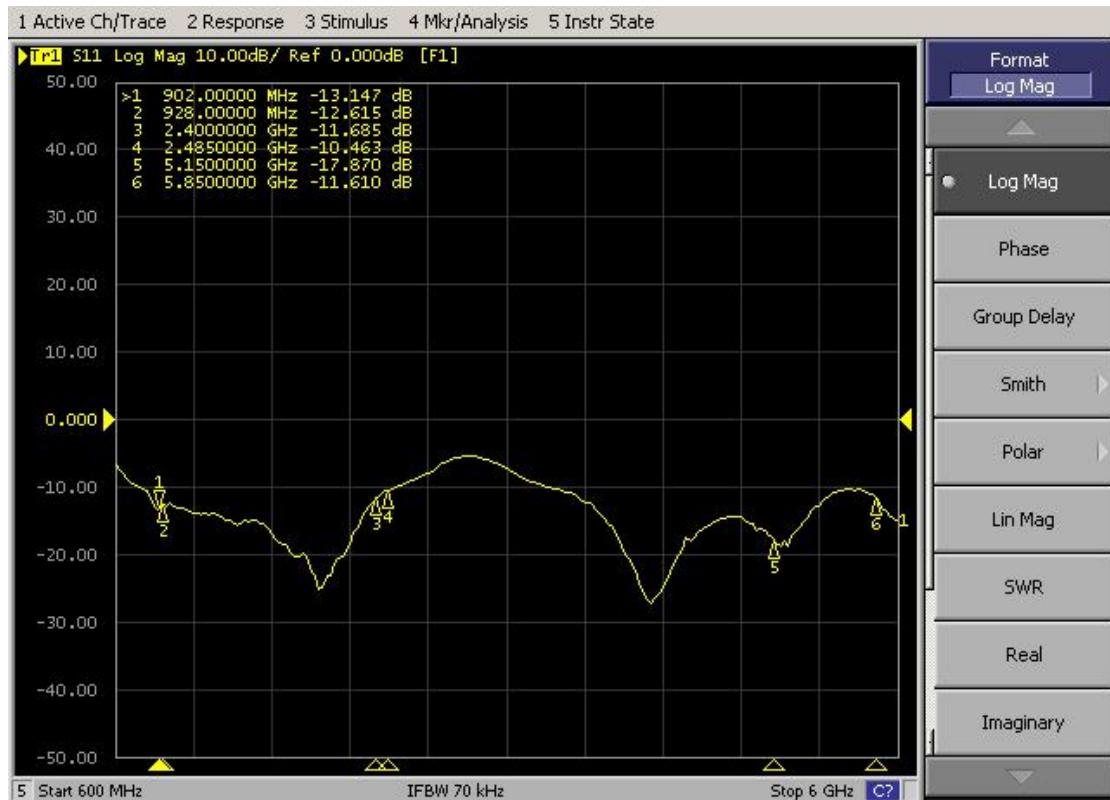
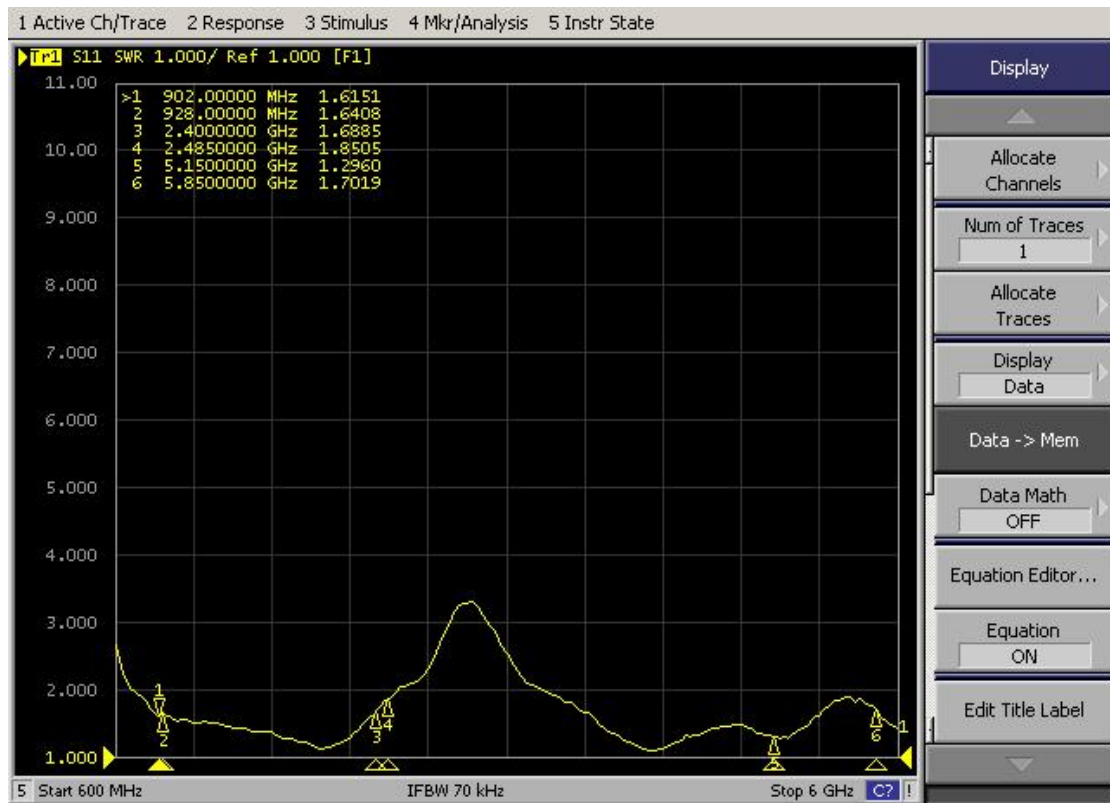
Antenna Specification



Model M 前天线 铝振子 TO MMCX-J RG316 棕色 L108mm

Item	Specification	Comment
Impedance	50Ω	
Test Condition	Passive test	
Freq. Range	902-928MHz/2400-2500MHz /5150-5850MHz	
Antenna Type	External Antenna	
Peak Gain	1.54dBi	
VSWR	902-928MHz≤2.0 2400-2500MHz≤2.0 5150-5850MHz≤2.0	
Polarization Type	Vertical	
Radiation Type	Omnidirectional	
Connector Type	MMCX-J	
RF Cable Type	RG316	
Dimension	L108mm	
Operating Temp	-30°C ~ +75°C	
Storage Temp	-30°C ~ +75°C	

1.SWR/驻波图



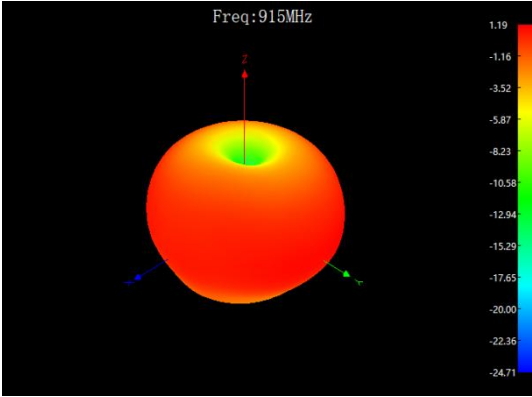
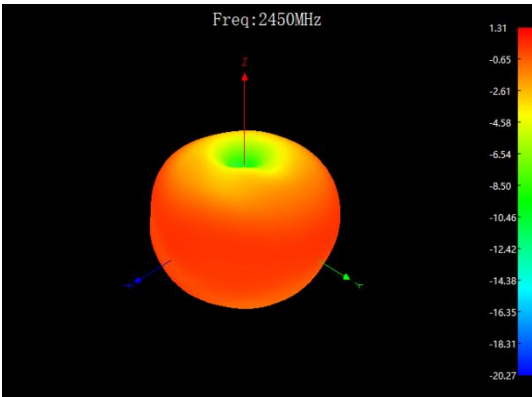
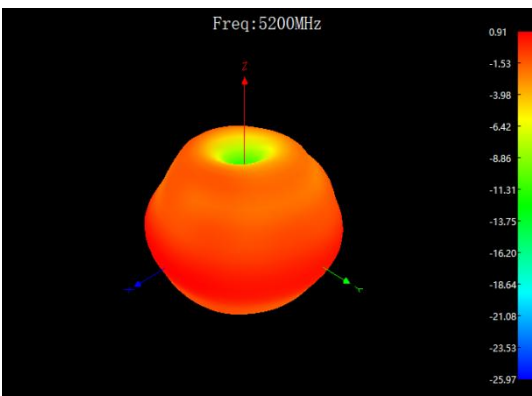
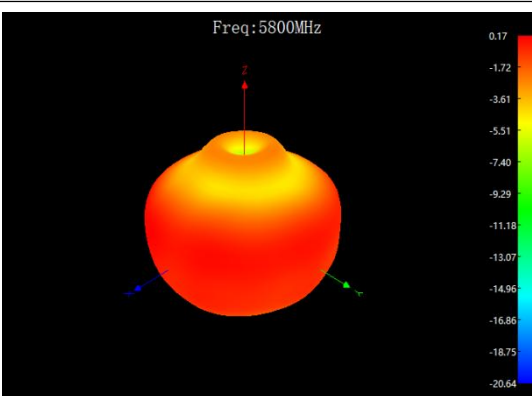
2. Efficiency/ Gain Test 效率测试

Freq (MHz)	Effi (%)	Gain (dBi)
902	69.66	1.26
903	70.15	1.23
904	70.15	1.17
905	70.15	1.13
906	69.50	1.04
907	69.18	1.00
908	69.18	1.00
909	69.02	1.04
910	68.87	1.03
911	69.98	1.13
912	70.47	1.17
913	70.79	1.19
914	71.12	1.18
915	71.78	1.19
916	70.47	1.01
917	69.98	0.90
918	70.31	0.87
919	71.12	0.92
920	72.11	1.05
921	73.28	1.17
922	73.79	1.27
923	73.45	1.25
924	72.28	1.17
925	70.63	1.04
926	70.31	0.96
927	70.15	0.88
928	70.47	0.85
AVG	70.68	1.08

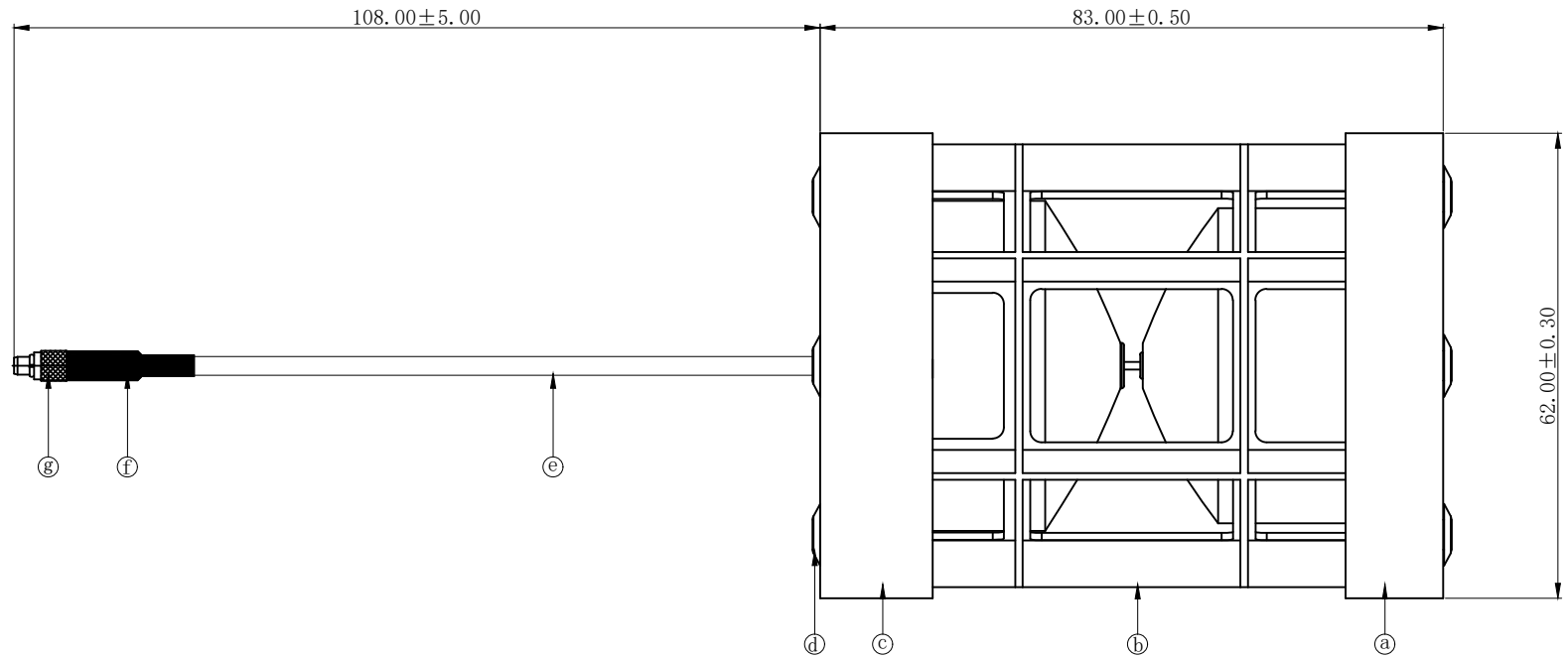
Freq (MHz)	Effi (%)	Gain (dBi)
2400	60.81	1.41
2410	61.38	1.52
2420	60.26	1.45
2430	61.24	1.34
2440	59.57	1.17
2450	60.53	1.31
2460	60.53	1.45
2470	59.16	1.29
2480	60.26	1.39
2490	58.08	1.32
2500	58.34	1.43
AVG	60.01	1.37

Freq (MHz)	Effi (%)	Gain (dBi)
5150	72.11	1.28
5200	68.23	0.91
5250	72.61	1.19
5300	76.91	1.54
5350	67.61	0.98
5400	61.09	0.39
5450	66.68	0.28
5500	64.12	0.40
5550	58.34	0.20
5600	52.48	-0.44
5650	55.21	-0.41
5700	56.62	-0.15
5750	56.49	0.02
5800	54.45	0.17
5850	58.48	0.52
AVG	62.76	0.46

3.3D Radiation Pattern/3D 辐射方向图

915MHz	 <p>3D radiation pattern for 915MHz. The plot shows a spherical radiation pattern with a color scale ranging from 1.19 (red) to -24.71 (blue). The z-axis is vertical, and the x and y axes are horizontal. The radiation is concentrated in the upper hemisphere, with the highest intensity (red) at the top pole (z=1) and decreasing as it moves away from the z-axis.</p>
2450MHz	 <p>3D radiation pattern for 2450MHz. The plot shows a spherical radiation pattern with a color scale ranging from 1.31 (red) to -20.27 (blue). The z-axis is vertical, and the x and y axes are horizontal. The radiation is concentrated in the upper hemisphere, with the highest intensity (red) at the top pole (z=1) and decreasing as it moves away from the z-axis.</p>
5200MHz	 <p>3D radiation pattern for 5200MHz. The plot shows a spherical radiation pattern with a color scale ranging from 0.91 (red) to -25.97 (blue). The z-axis is vertical, and the x and y axes are horizontal. The radiation is concentrated in the upper hemisphere, with the highest intensity (red) at the top pole (z=1) and decreasing as it moves away from the z-axis.</p>
5800MHz	 <p>3D radiation pattern for 5800MHz. The plot shows a spherical radiation pattern with a color scale ranging from 0.17 (red) to -20.64 (blue). The z-axis is vertical, and the x and y axes are horizontal. The radiation is concentrated in the upper hemisphere, with the highest intensity (red) at the top pole (z=1) and decreasing as it moves away from the z-axis.</p>

REV.	ECN NUMBER	DESCRIPTION	DATE
A	ECN	FIRST RELEASE	06/19' 23



技术要求:

1. 焊接不能虚焊、假焊，屏蔽层不能有烫伤。
2. 全检VSWR测试
3. 标有“▼”为重点检测尺寸。
4. 产品需符合本公司ROHS及相关可靠性等要求。

g	接头	1		MMCX-J
f	热缩管	1		热缩管
e	CABLE	1		RG316, L150mm
d	铆钉	12		铆钉
c	铝件	1		下铝件辐射臂
b	支架	1		支架
a	铝件	1		上铝件辐射臂
ITEM	PART NAME	Q'TY	PART #	MATERIAL / FINISH



GENERAL TOLERANCE
 . X ± 0.30 ± 1.
 . XX ± 0.15
 . XXX ± 0.15
 SCALE: 1:1
 UNIT: mm
 SIZE: A4

DRAWN:	Tom	DATE:	06/19' 23
CHECK:		DATE:	
APPROVE:		DATE:	
PROJECT NAME:		Model M 前天线	
PART NO:		366N0347	
TITLE:			REV.
Model M 前天线 铝振子 TO MMCX-J			A
RG316 棕色 L108mm			SHEET:
			1/1