

Product Specification

Customer	
Part Number	M65
Product Type	Wifi Antenna
Issue Date	2023.3.3
Rev.	A
Maker	Rma
Approval	Maye

Customer Approval

List

1. Product Layout
2. Electrical Specification
3. Antenna Test Matching
4. Return loss
5. Antenna Efficiency VS Gain
6. Mechanical Specification

Product Layout



Electrical Specification

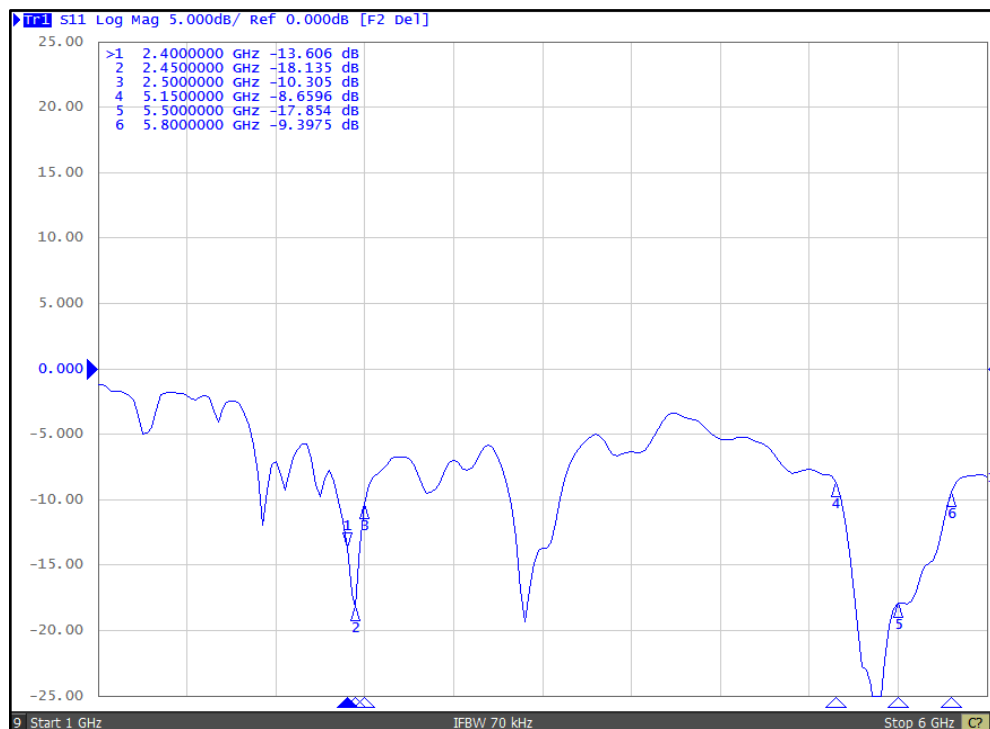
Item	Description
Frequency Range	2.4G-5.85GHz
VSWR	5.0Max
Peak Gain	4.2 dBi
Polarization	Linear
Input Impedance	50 Ohm
Operation Temperature	-40~105℃

Note: Antenna gain includes the connector and cable loss.

Antenna Test Matching

No change be done on the prototype's original circuit.

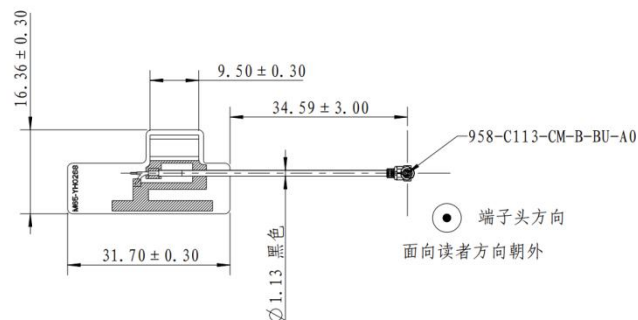
Return loss



Antenna Efficiency VS Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	41.8	-3.8	-0.6	5150	36.1	-4.4	-0.1
2410	36.4	-4.4	-0.9	5200	36.2	-4.4	0.4
2420	40.2	-4.0	-0.2	5250	42.2	-3.7	1.6
2430	39.9	-4.0	-0.1	5300	38.0	-4.2	1.8
2440	41.0	-3.9	0.1	5350	41.8	-3.8	3.3
2450	47.4	-3.2	0.8	5400	43.0	-3.7	3.5
2460	40.5	-3.9	0.2	5450	49.1	-3.1	4.2
2470	43.6	-3.6	0.5	5500	49.3	-3.1	4.0
2480	44.3	-3.5	0.6	5550	54.2	-2.7	4.1
2490	41.9	-3.8	0.3	5600	47.0	-3.3	2.5
2500	48.9	-3.1	0.9	5650	52.9	-2.8	3.2
AVE	42.3	-3.7	0.1	5700	45.9	-3.4	2.8
				5750	51.5	-2.9	3.2
				5800	44.2	-3.5	1.7
				5850	51.2	-2.9	2.4
				AVE	45.5	-3.5	2.6

Mechanical Specification



- 技术要求:
1. FPC: PI电解铜, 1 Mil PI, 0.5 oz 铜, 黑色油墨;
 2. 线束: 神宇双锡黑色1.13线束, 彩美 958-C113-CM-B-BU-A0;
 3. 焊接处不能有虚焊、假焊等不良;
 4. 100% 天线一致性测试;
 5. 符合RoHS要求。

名 称	M6S WIFI 天线
规 格	组件
设 计	May 2023-2-3