

Antenna Datasheet

Product OC: Y0DLK00A0FA

Version: 1.1

Date: 2023-10-25

Status: Preliminary

Product Name: WIFI FPC Antenna

Key Features:

Frequency Band: 2400-2500MHz 5150-5850MHz 5925-7125MHz

Dimensions:

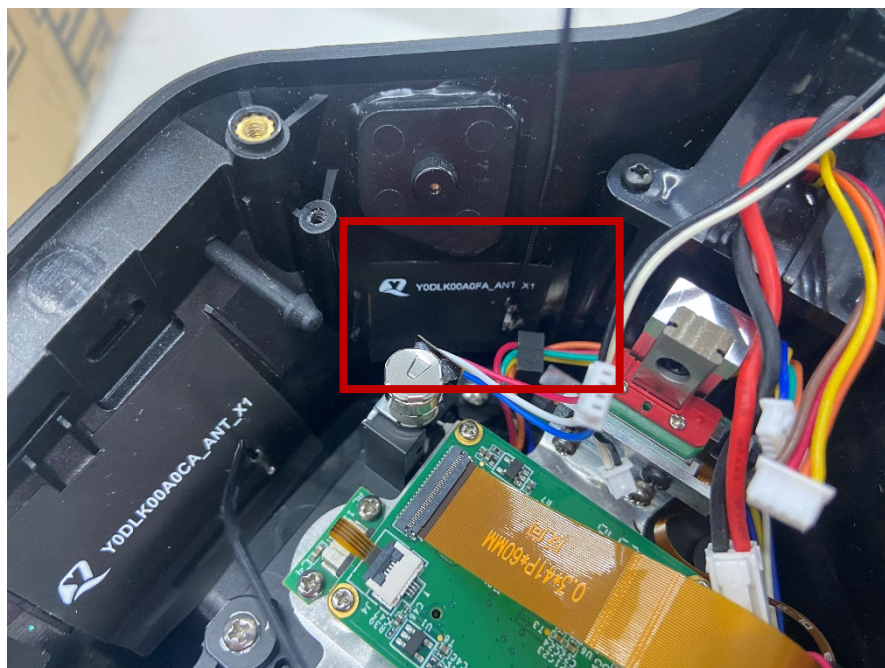
Efficiency: Up to 37%

RoHS and REACH Compliant

1 Specification

Test Condition: Assembled in test device

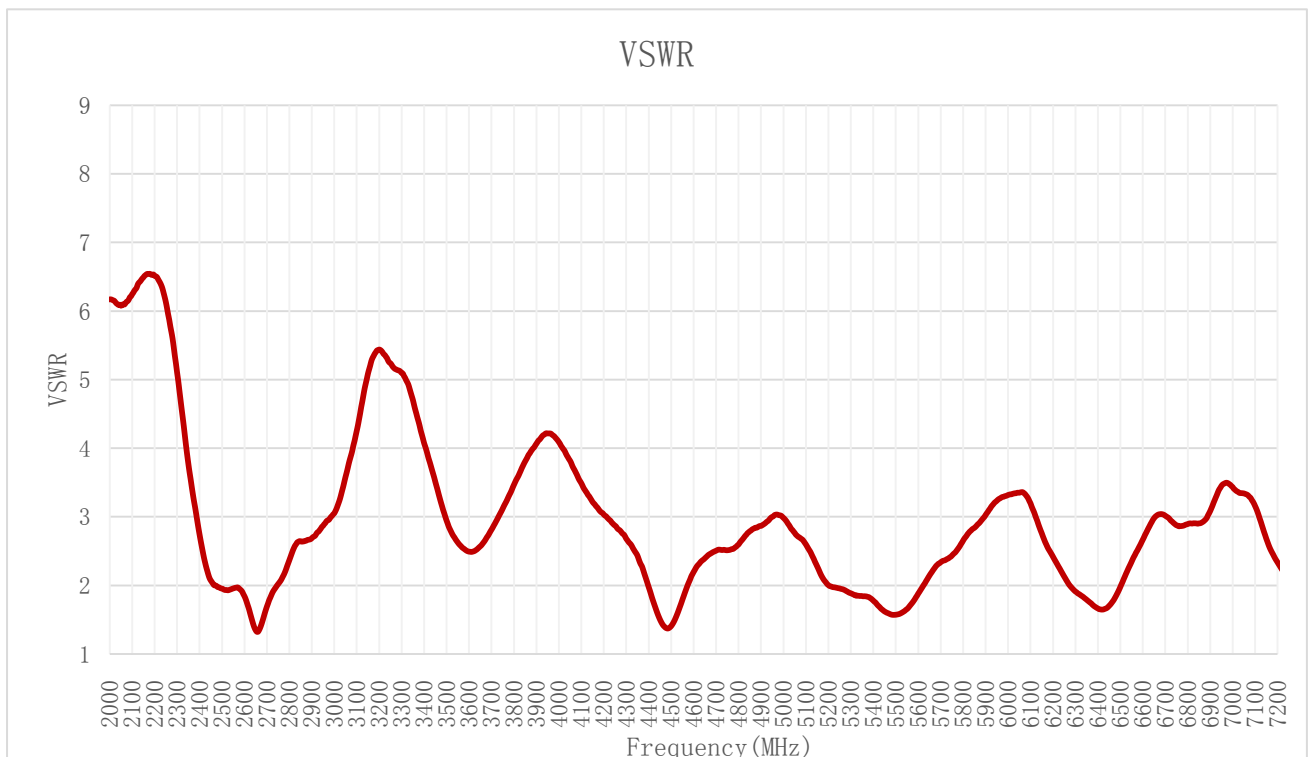
1.1. Antenna Assembly



2 Detailed Performance

2.1. S-Parameter Test

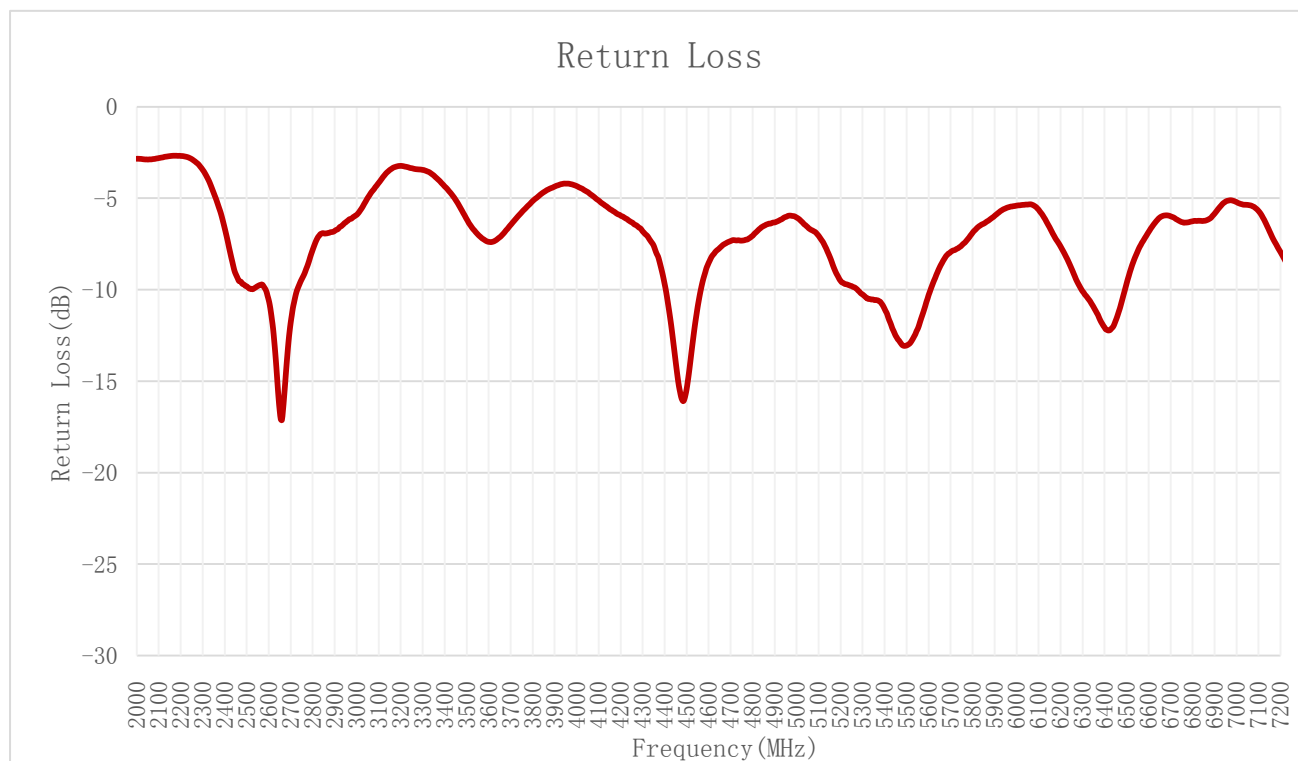
2.1.1. VSWR



VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	2.7	2.1	2.0	2.3	1.6	2.8	3.1	1.9	2.9	2.9

2.1.2. Return Loss

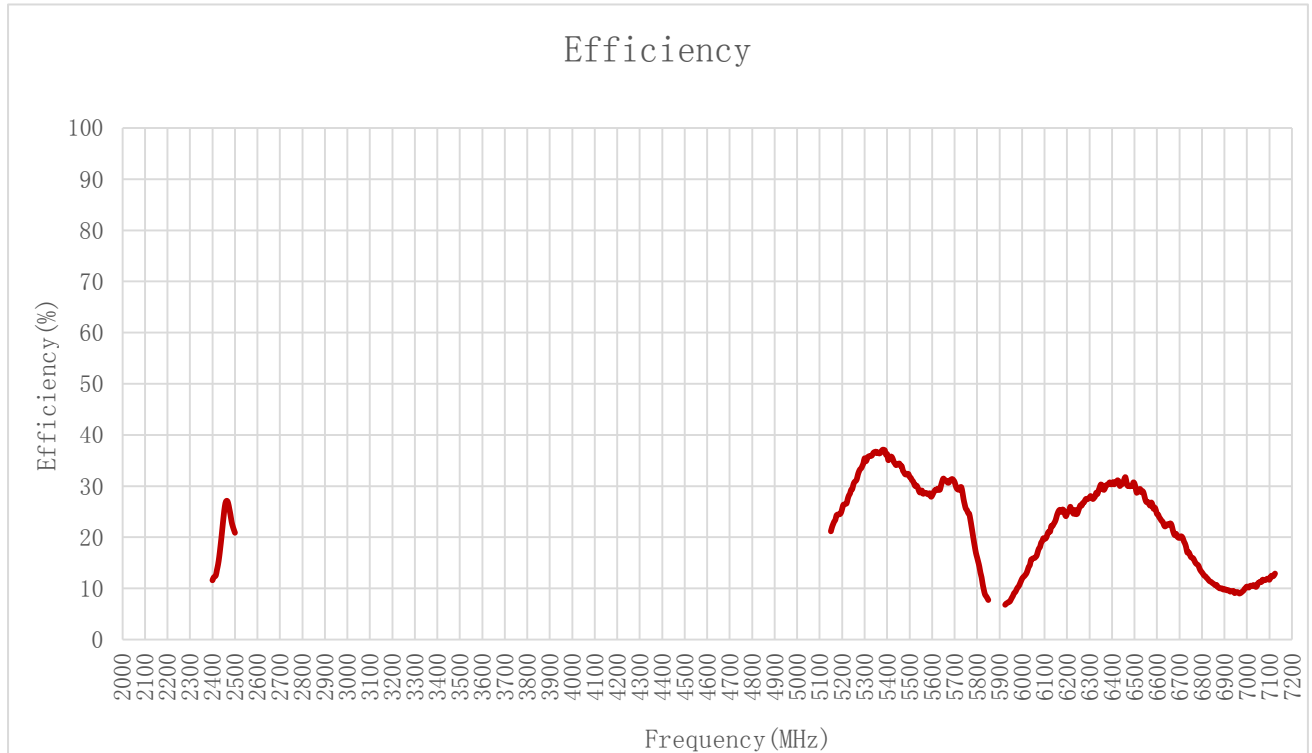


Return Loss

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Return Loss (dB)	-6.6	-9.1	-9.8	-8.2	-13.0	-6.4	-5.7	-10.5	-6.1	-6.2

2.2. Radiation Performance Test

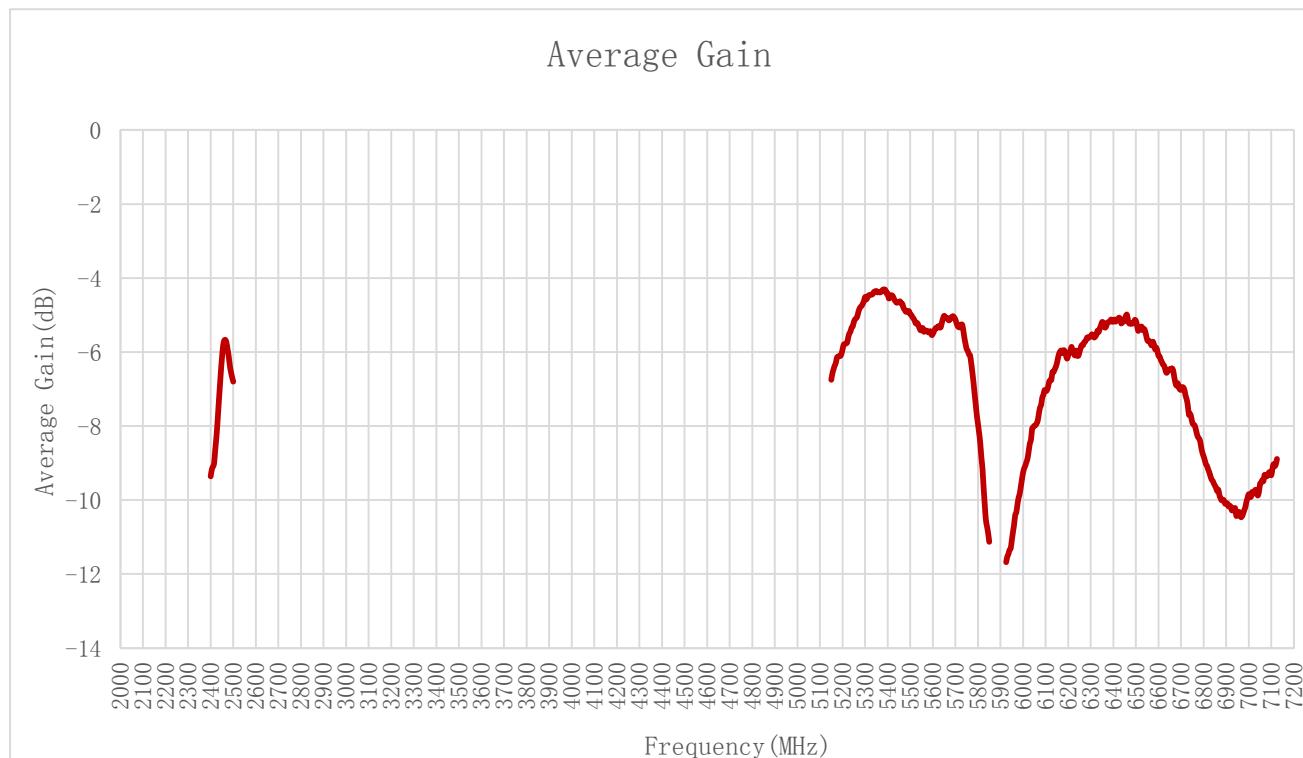
2.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	11.6	24.2	20.9	21.2	31.8	7.7	6.8	28.0	18.7	12.9

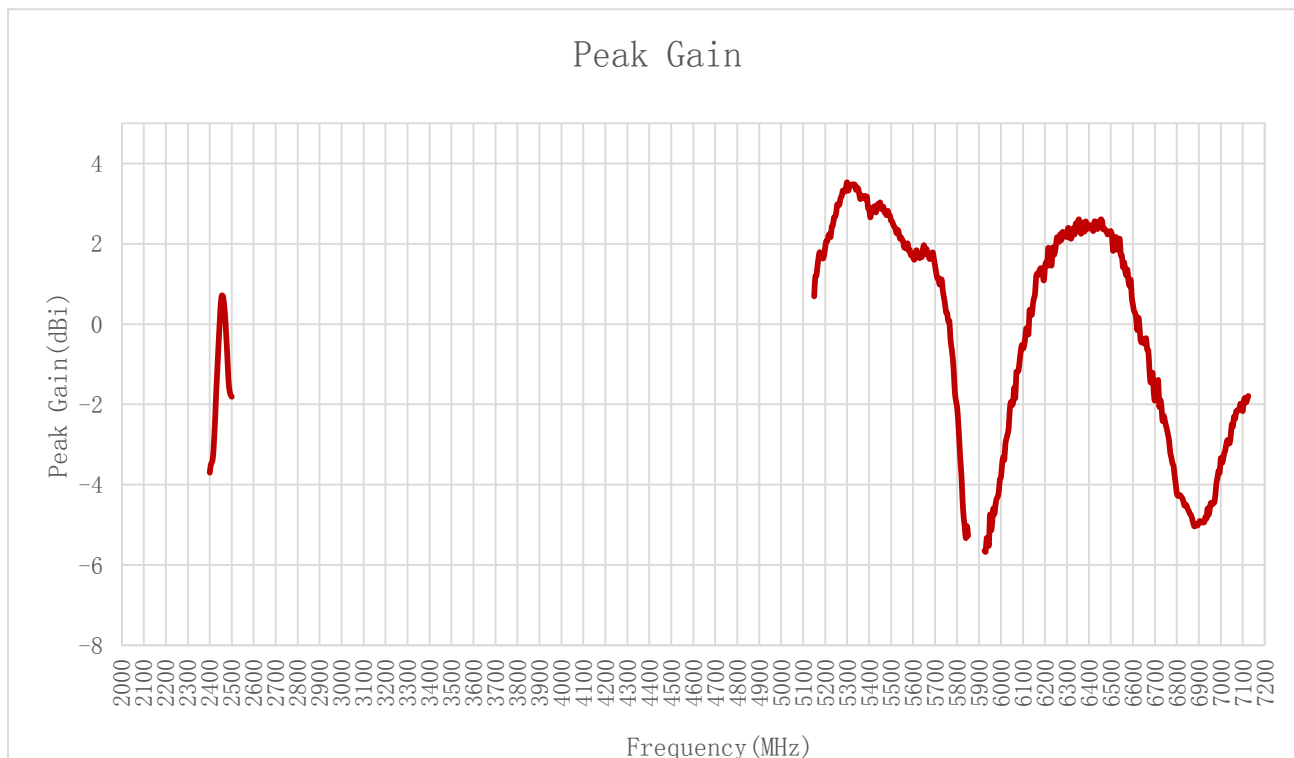
2.2.2. Average Gain



Average Gain (dB)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Average Gain (dB)	-9.4	-6.2	-6.8	-6.8	-5.0	-11.1	-11.7	-5.5	-7.3	-8.9

2.2.3. Peak Gain



Peak Gain (dB)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dB)	-3.7	0.5	-1.8	0.7	2.6	-5.3	-5.6	2.3	-1.9	-1.8

2.2.4. 3D & 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: HF-G-1



