

Antenna Specifications

Suzhou Top-link wireless Technologies CO., LTD.

苏州市拓普联科无线技术有限公司
样品承认书

Antenna Specifications

Custome r	Honeywell	Phone Model	WIFI6
project	EDA52wifi6	Frequency band	WIFI 2.4G-5.8 G
Color	Black	Revision	P03
Design	Alan	Date	2022-03-30
Check	Daniel	Date	2022-03-30
Approve	Kevin	Date	2022-03-30
Custome r Approve		Date	

Honeywell

P/N#: 3008-5462-001

Describe: FRAME,S0703 ENGINE,WIFI6,EDA52

REV: P03

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目录是空的，因为您没有使用被设为在目录中显示的段落样式。

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1. General

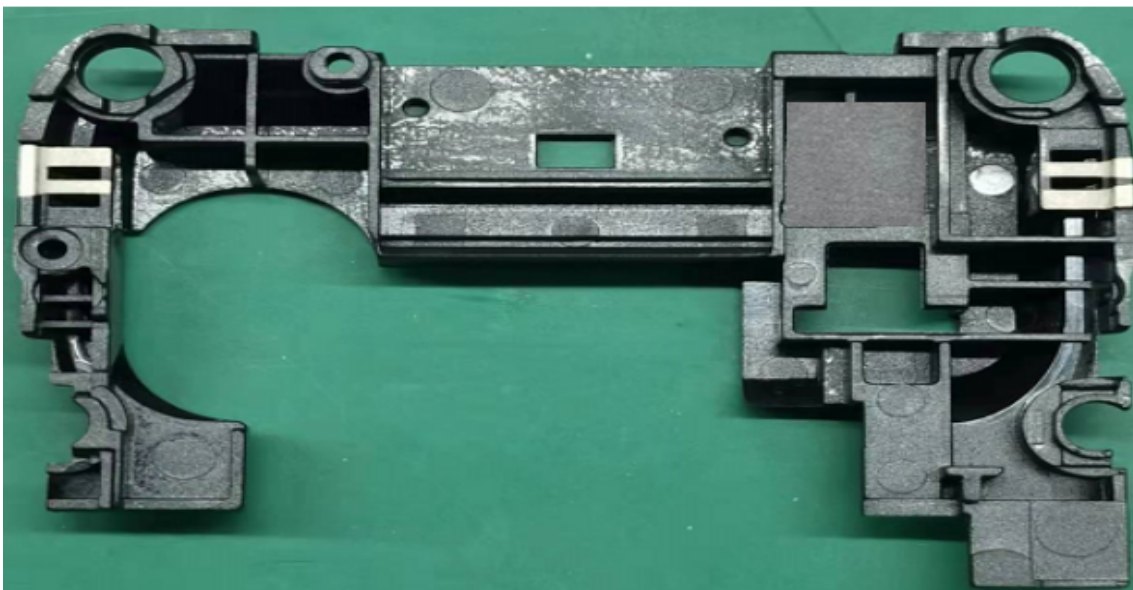
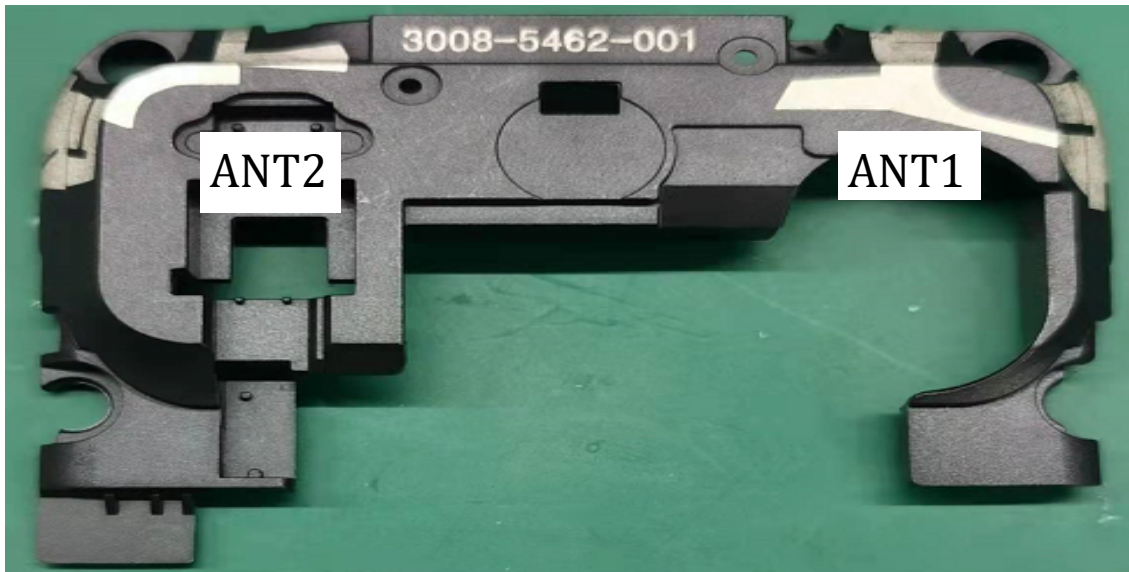
This document presents the antenna specifications on electric and mechanic. The testing conditions, fixturing methods and related pictures are also included.

1.1 Product Description

These antennas product contains one fixed internal antenna which consisting of a plastic carrier element ant. They are used in a portable unit for wireless communication (referred to

as a phone). The phone model No. is Honeywell EDA52wifi6 antenna. The Honeywell EDA52wifi6 Wifi antenna works in frequency bands Wifi (2.4G-5.8G)

The pictures of the antenna is as Figure 1-1



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Figure 1 1 The pictures of the antenna

1.2 Product Part Number

Customer Product Number: 3008-5462-001

WIFI6 ANTENNA

1.3 Print Acceptance

Samples and Antenna Specifications are to be sent to customer. When they are approved, the approval form should be completed, signed, and sent back to Top-link before further mass production batches can be delivered.

2. Electrical Properties

2.1 Frequency Band

WIFI 2.4G WIFI5.8 G

2.2 Impedance

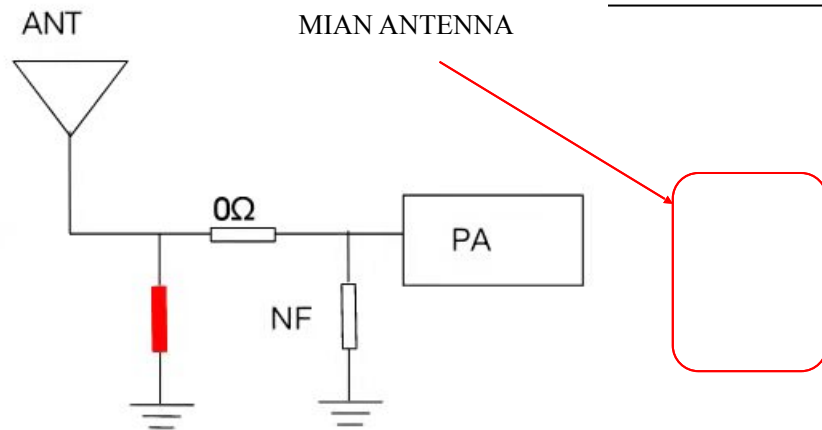
2.2.1 Nominal

50Ohm

2.2.2 Method

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Top-link will supply engineering assistance to ensure that the impedance over the frequency bands is as close to 50 ohms as possible after matching.

2.3 Passive Specifications

2.3.1 Methods of passive measurements

A 50 ohms coaxial cable is connected to the 50 ohms feeding point on the RF JIG. S11 of typical sample (Free Space)

Figure 2-1 is the Methods of passive measurements

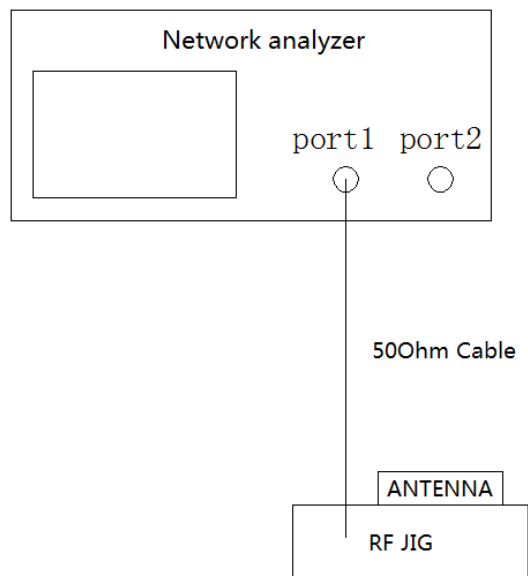
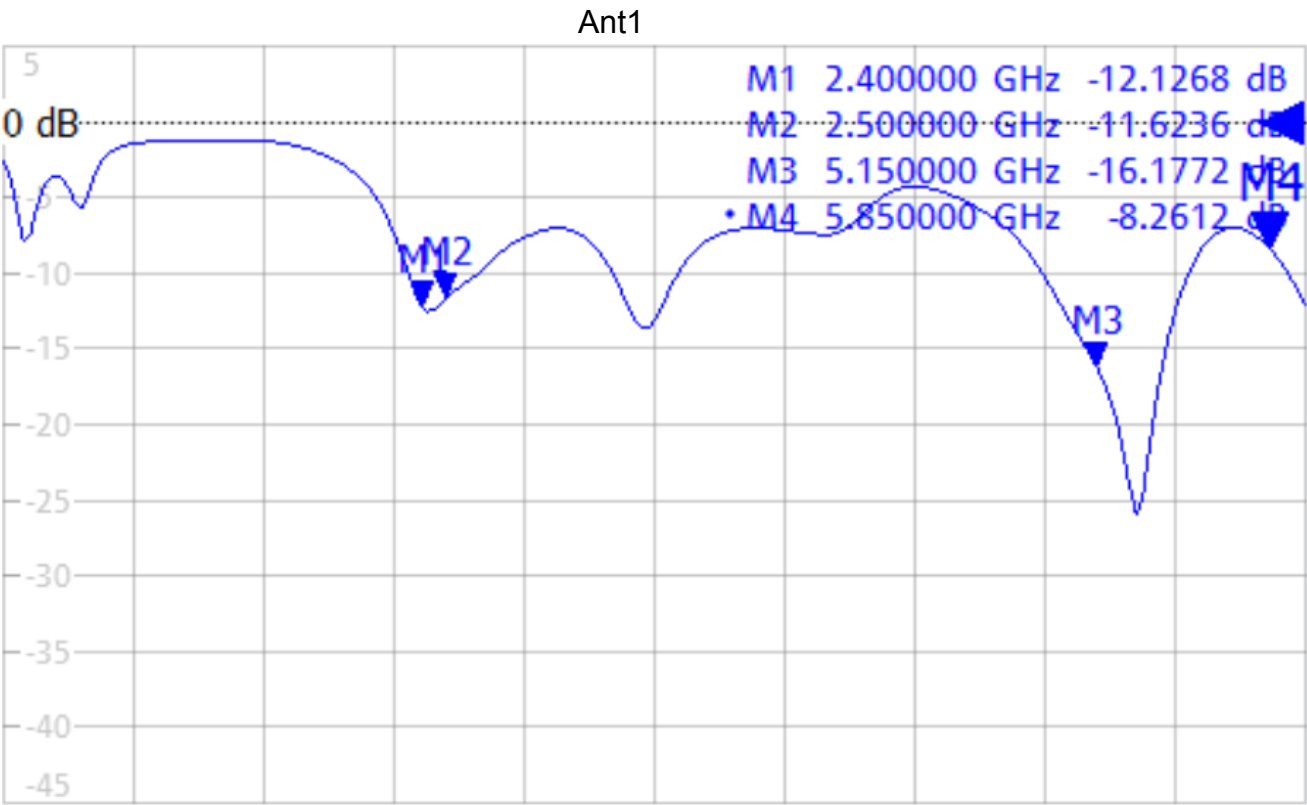


Figure 2-1 is the Methods of passive measurements

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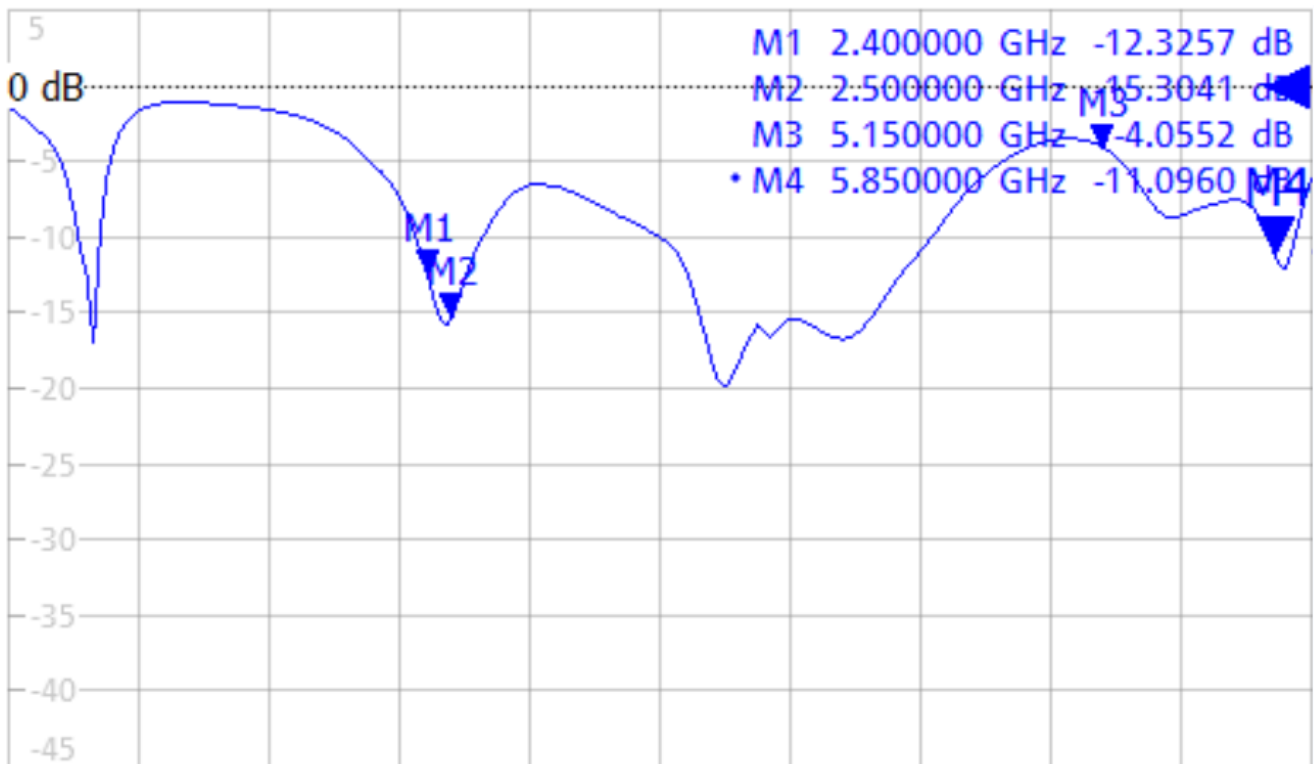
Figure 2-2 is the Return Loss
WIFI6



Ant2

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2.3.2 Efficiency Specifications (Free Space)

Chambers which complies with CTIA criteria is used in Top-link to measure antenna transmission parameters such as antenna efficiency, radiation pattern, etc. Table 2-4 is the efficiency of the typical sample.

Table 2-4 Efficiency of the typical sample

WIFI6 Ant1 2.4G

频率(MHz)	效率(%)	增益(dBi)
2400	46.33	0.34
2411	44.67	0.52
2422	42.36	0.45
2433	41.27	0.45
2444	37.1	0.57
2456	36.83	0.85
2467	39.21	1.23
2478	41.23	1.36
2489	38.06	1.05
2500	40.15	1.33

WIFI6 Ant1 5.8G

频率(MHz)	效率(%)	增益(dBi)	频率(MHz)	效率(%)	增益(dBi)
5100	46.51	0.49	5471	38.04	1.21
5121	40.54	0.85	5491	32.54	0.56
5141	38.73	0.64	5512	44.67	0.84
5162	33.52	0.9	5532	42.36	0.88
5182	32.31	0.7	5553	41.27	0.9
5203	35.65	0.91	5574	39.83	0.88
5224	38.94	0.74	5594	48.46	1.46
5244	34.1	0.98	5615	46.33	-0.22
5265	36.52	0.45	5635	44.67	1.25
5285	29.36	0.89	5656	42.36	1.53
5306	47.99	1.31	5676	40.19	1.75
5326	35.81	1.45	5697	39.43	1.74
5347	31.31	1.63	5718	40.78	2.15
5368	52.1	1.61	5738	34.95	2.14
5388	46.36	1.71	5759	39.08	2.26
5409	39.5	0.77	5779	36.34	1.99
5429	37.05	1.52	5800	40.15	2.1
5450	35.48	1.21			

WIFI6 Ant2 2.4G

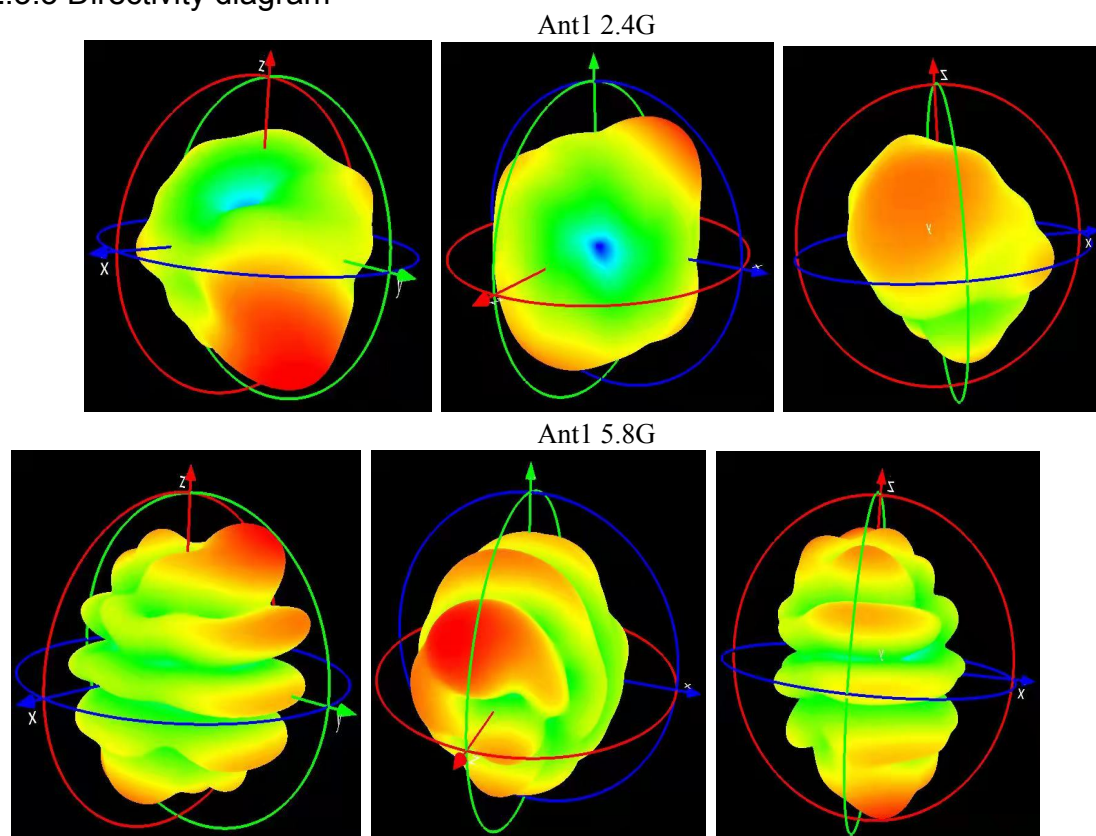
WIFI6 Ant2 5.8G

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频率(MHz)	效率(%)	增益(dBi)	频率(MHz)	效率(%)	增益(dBi)	频率(MHz)	效率(%)	增益(dBi)
2400	37	-0.31	5100	32.31	0.35	5471	41.52	2.26
2411	38.3	-0.04	5121	35.78	0.72	5491	36.42	2.13
2422	37.79	0.32	5141	33.92	1.04	5512	36.24	1.9
2433	38.23	0.75	5162	36.57	1.48	5532	36.21	1.72
2444	39.25	1.18	5182	34.41	1.55	5553	36.82	1.5
2456	40.43	1.79	5203	39.08	2.13	5574	34.06	2.06
2467	42.39	2.25	5224	36.34	2.11	5594	37.3	2.03
2478	43.66	2.51	5244	40.15	2.78	5615	23.87	-0.3
2489	41.32	2.3	5265	33.96	2.41	5635	36.71	1.21
2500	44.35	2.91	5285	36.51	3	5656	35.49	1.81
			5306	38.52	3.06	5676	37.02	1.57
			5326	41.2	3.42	5697	34.12	1.83
			5347	40.19	3.31	5718	36.79	1.73
			5368	39.43	3.42	5738	34.78	2.06
			5388	40.78	3.14	5759	35.11	1.72
			5409	34.95	2.04	5779	31.63	1.52
			5429	44.31	2.49	5800	33.6	1.44
			5450	43.39	2.67			

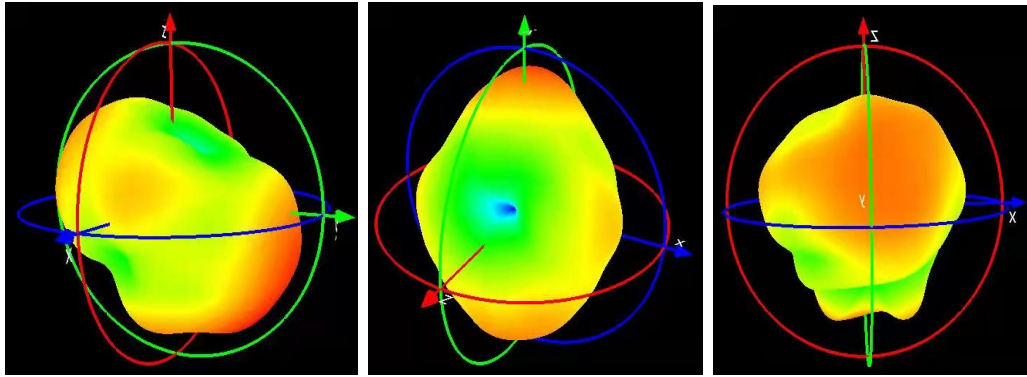
2.3.3 Directivity diagram



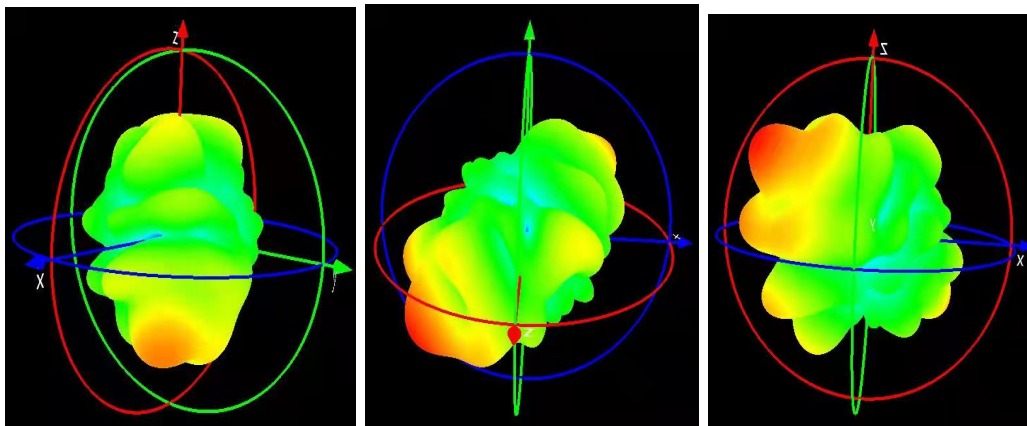
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Ant2 2.4G



Ant2 5.8G



3. Mechanical Properties

3.1 Specifications Drawings

Figure 3-1 is the specifications drawing of this antenna.

