

天线规格书
Product Specification

FE168 WIFI 天线
Internal antenna

APPROVED BY	SIGNATURE	DATE
Mechanical Engineer:	ZHENG	2023-12-12
RF Engineer:	LIU	2023-12-12
Engineering Manager:	QI	2023-12-12
Approved By Customer (as required):		

1.0 DESCRIPTIONS AND PART NUMBER:

1.1 DESCRIPTION;

The antenna mounts to the housing of the device, And after that, the feed point on the prolongation of metal plate should firmly touch the contact provided on the PCB in the respective area

1.2 PART NUMBER

Part number	Frequency Band	HH Part Number
	2.4GHZ	

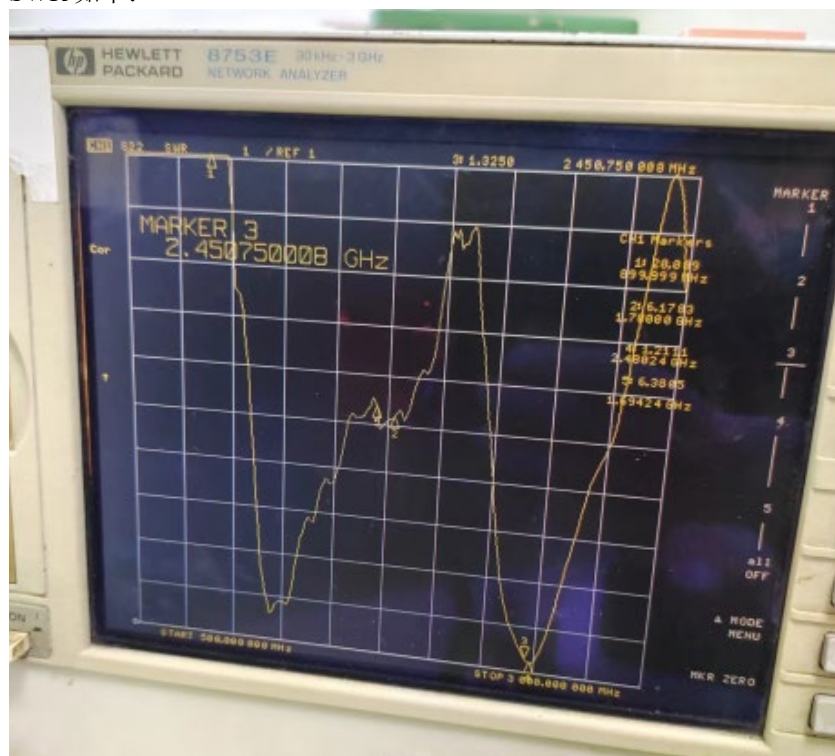
2.0 FREQUENCY BAND

2. 4GHZ

2.1 ACTIVE TEST REPORT

Gain&Efficiency 增益和效率			
frequency 频率(Hz)	gain 增益(dB)	efficiency 效率(dB)	efficiency 效率
2400M	-1.23	-5.4	27.49%
2410M	-1.15	-5.35	28.16%
2420M	-1.09	-5.32	28.67%
2430M	-1.03	-5.16	30.84%
2440M	-1.05	-5.18	30.49%
2450M	-0.98	-5.01	32.93%
2460M	-1.07	-5.08	31.89%
2470M	-1.05	-5.1	31.73%
2480M	-1.01	-5.13	31.29%
2490M	-1.03	-5.18	30.53%
2500M	-1.10	-5.25	29.54%

SWR 如下:

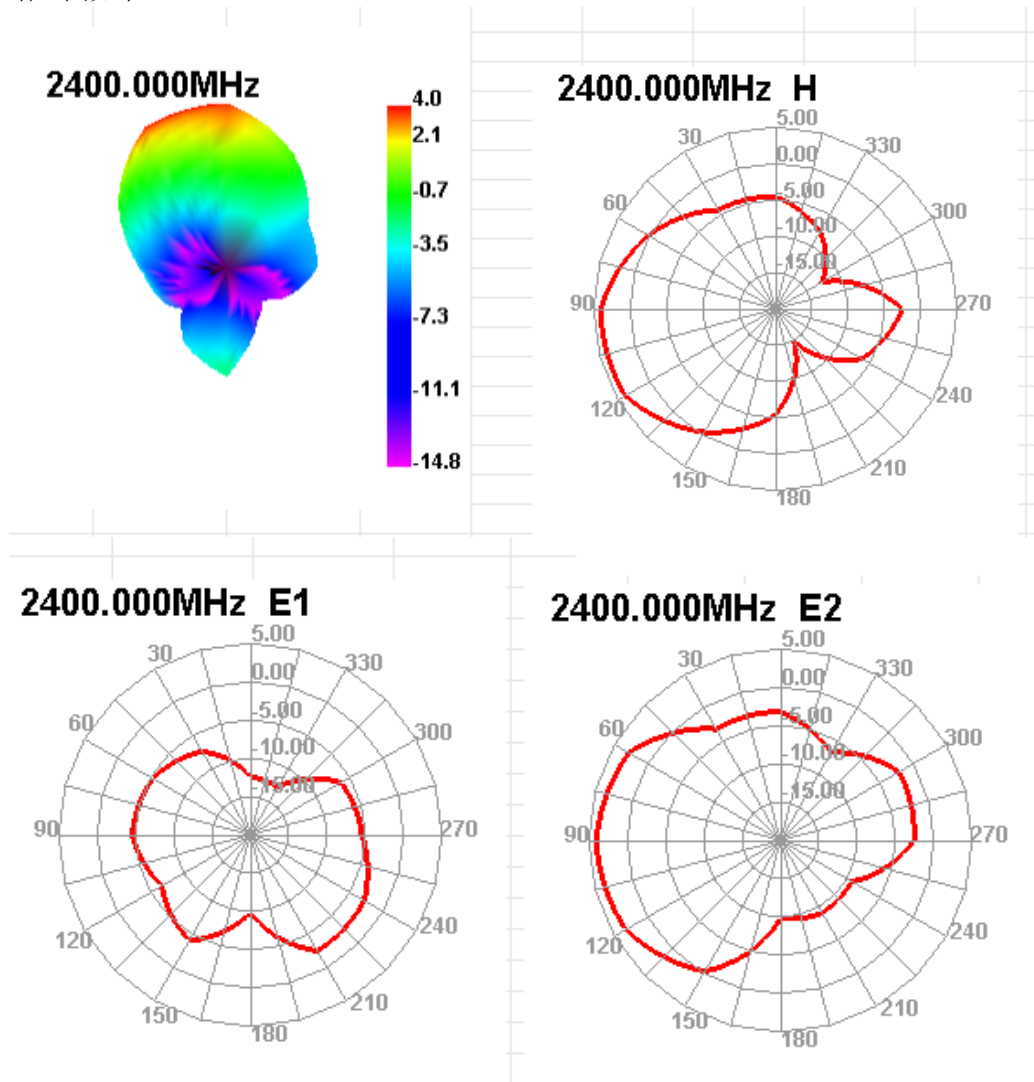


装配如下:

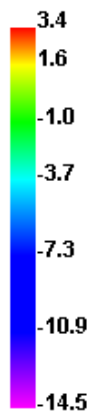
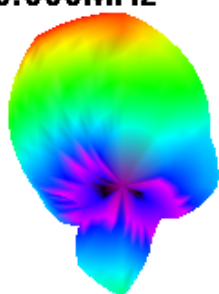


实际测试 WiFi 5-6 米。

增益图如下:



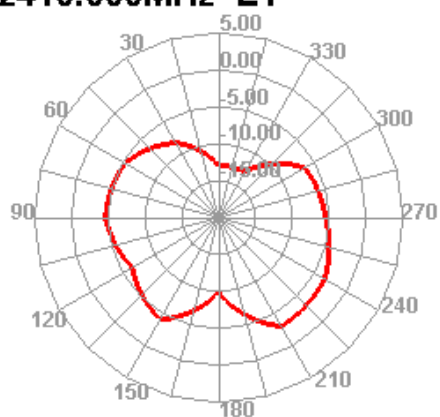
2410.000MHz



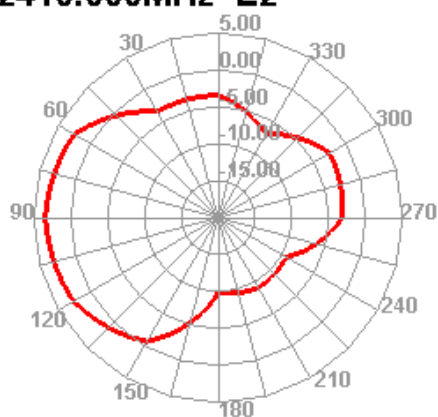
2410.000MHz H



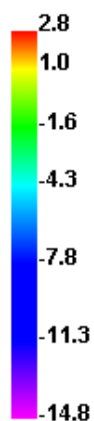
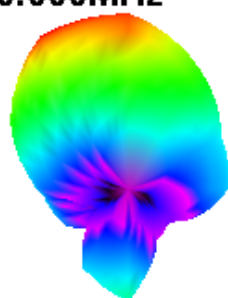
2410.000MHz E1



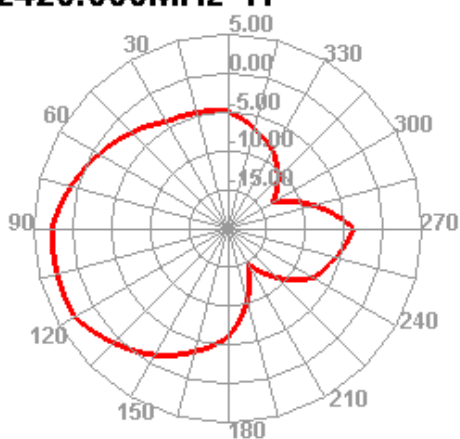
2410.000MHz E2



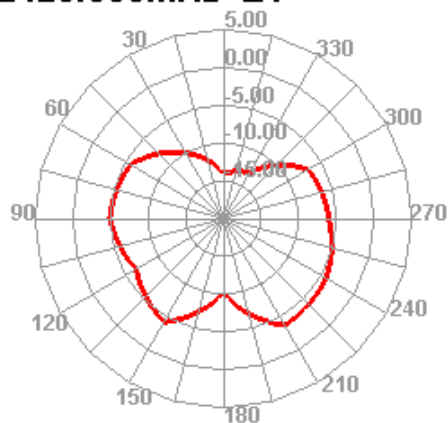
2420.000MHz



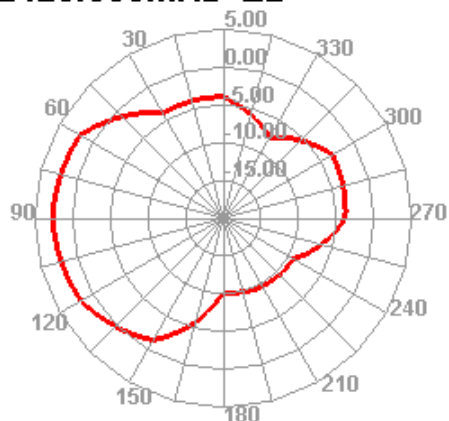
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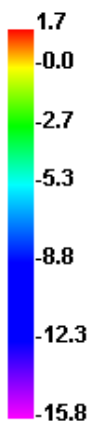
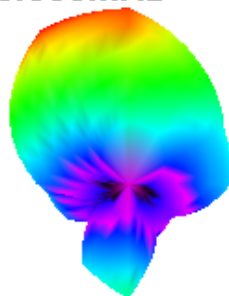
2420.000MHz E1



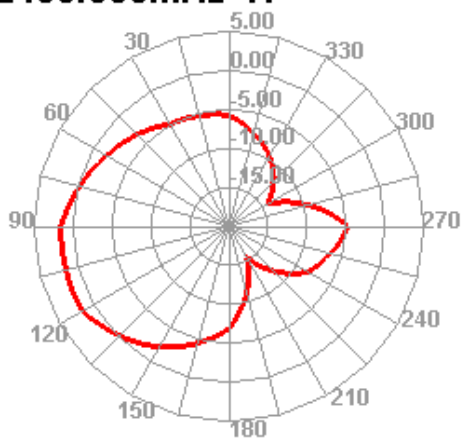
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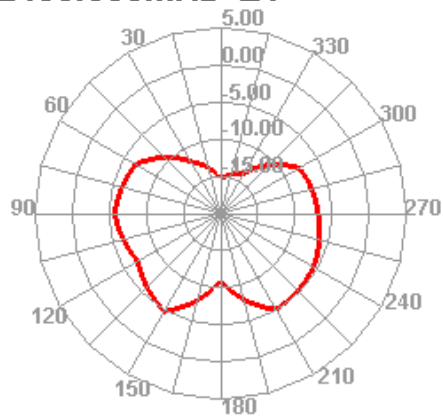
2430.000MHz



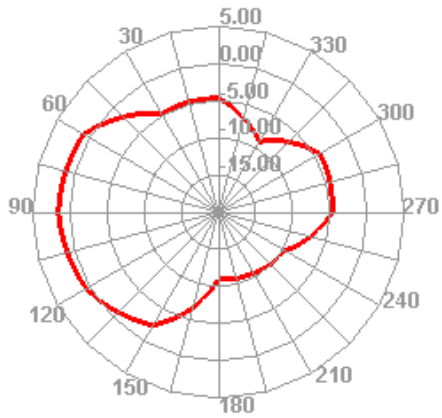
2430.000MHz H



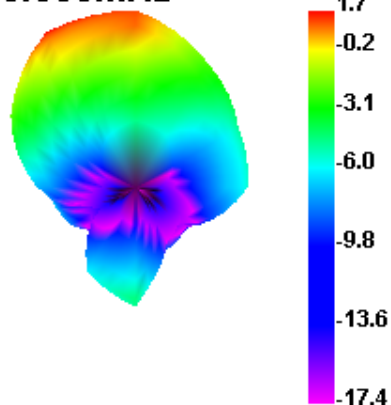
2430.000MHz E1



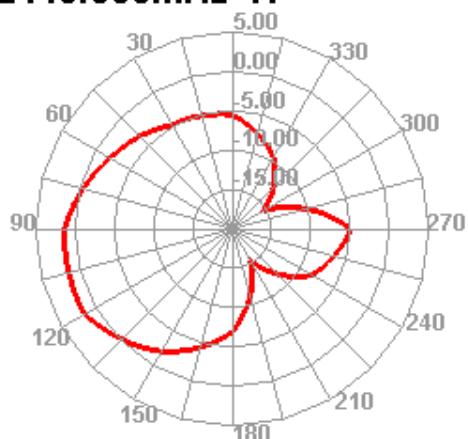
2430.000MHz E2



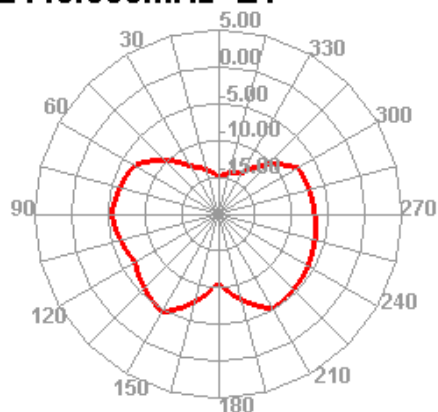
2440.000MHz



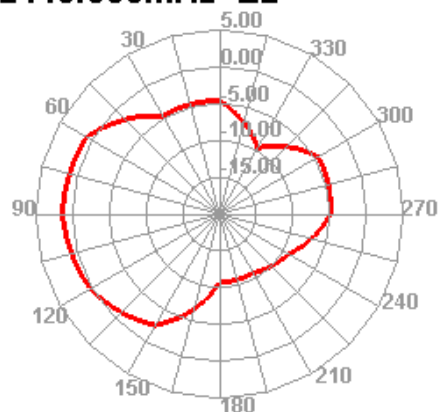
2440.000MHz H



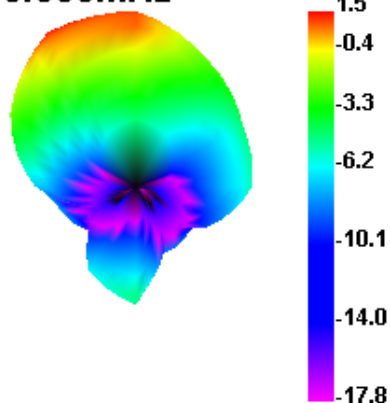
2440.000MHz E1



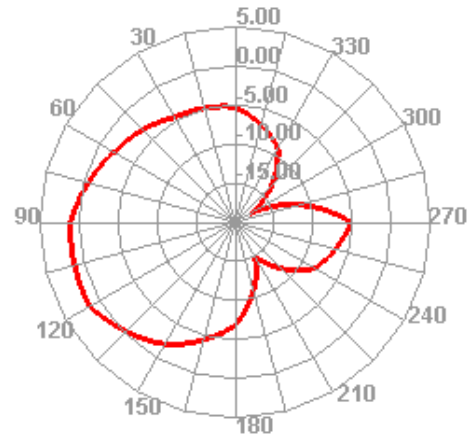
2440.000MHz E2



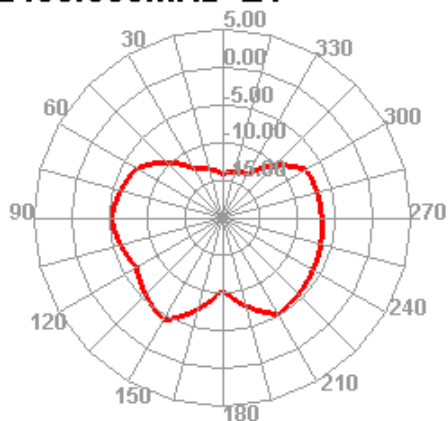
2450.000MHz



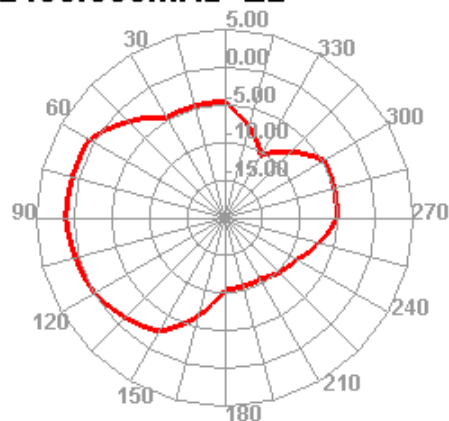
2450.000MHz H



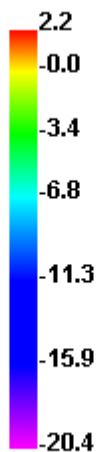
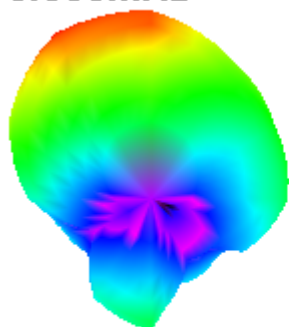
2450.000MHz E1



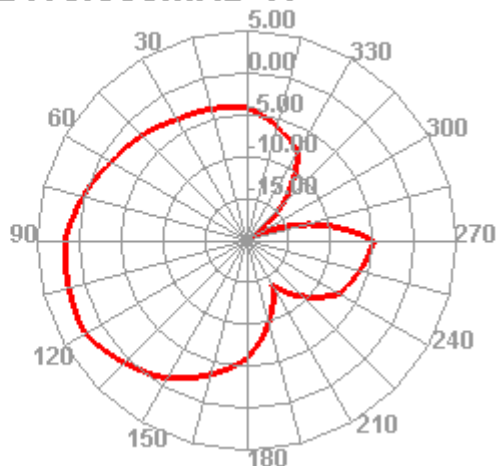
2450.000MHz E2



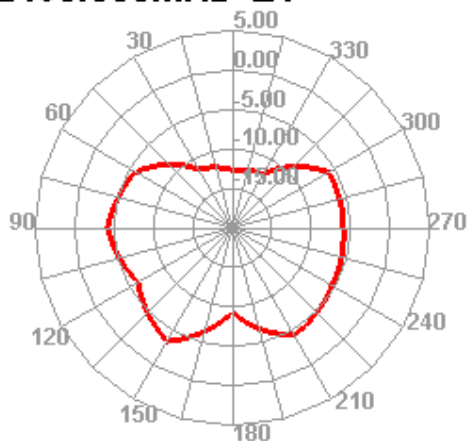
2460.000MHz



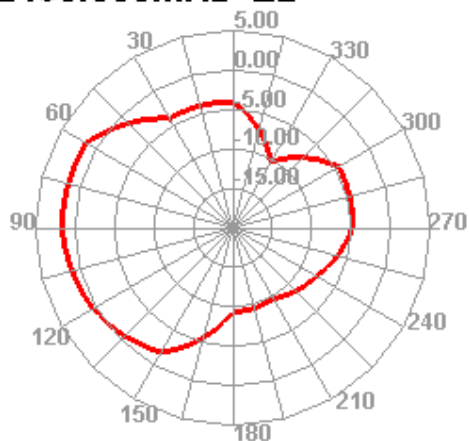
2460.000MHz H



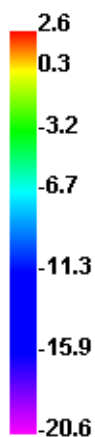
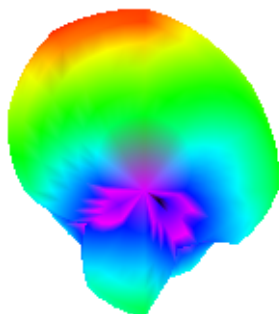
2460.000MHz E1



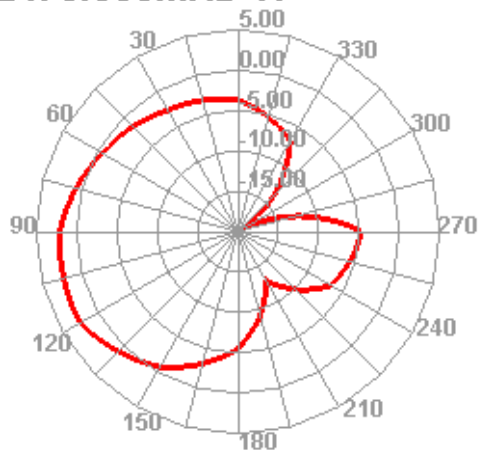
2460.000MHz E2



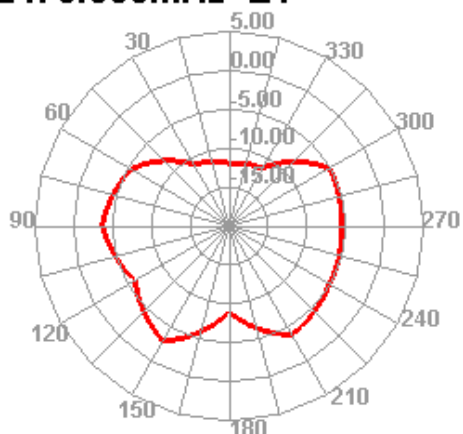
2470.000MHz



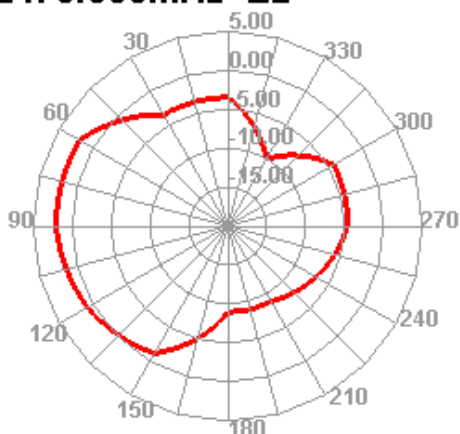
2470.000MHz H



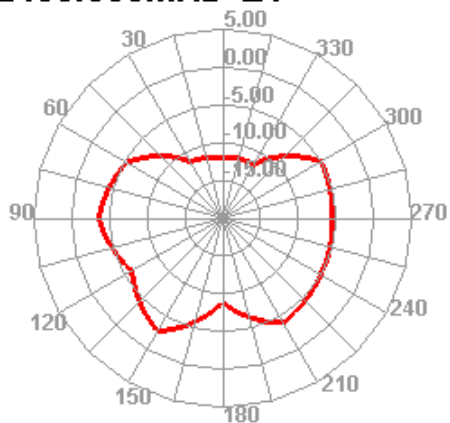
2470.000MHz E1



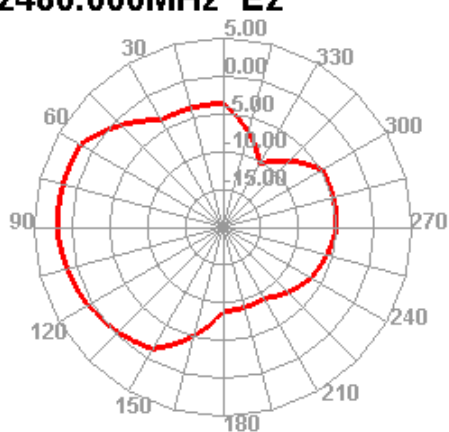
2470.000MHz E2



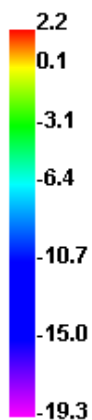
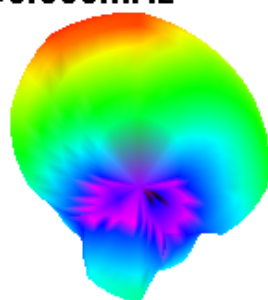
2480.000MHz E1



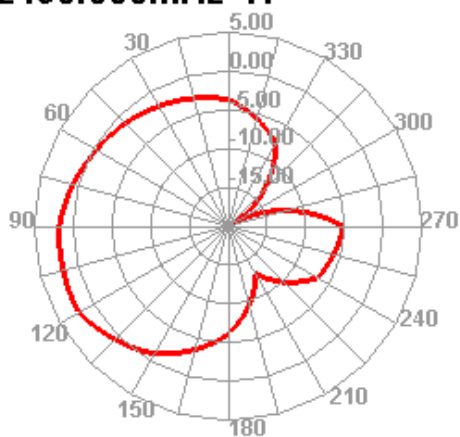
2480.000MHz E2



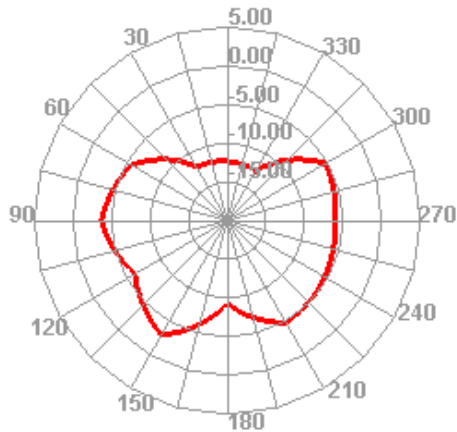
2490.000MHz



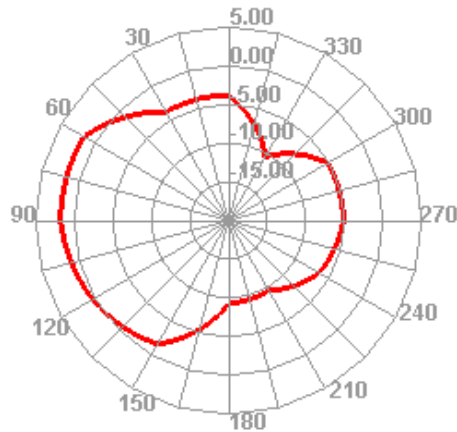
2490.000MHz H



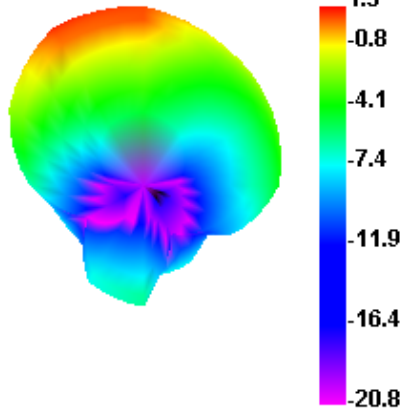
2490.000MHz E1



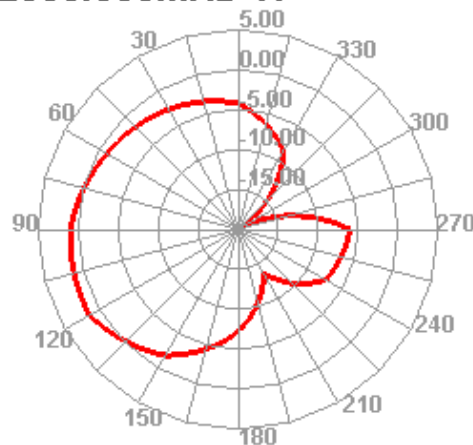
2490.000MHz E2



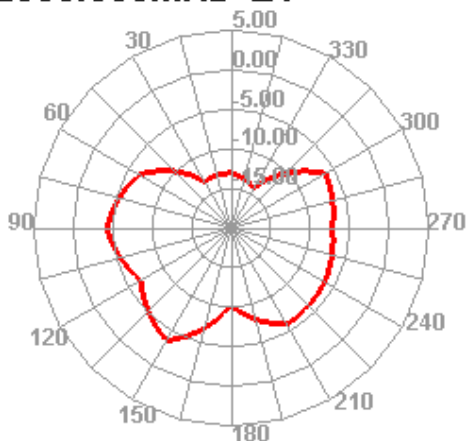
2500.000MHz



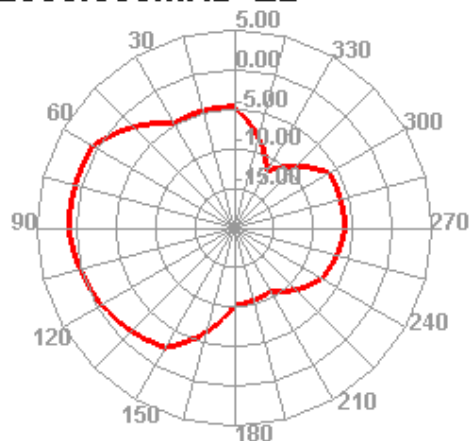
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



3.0 MECHANICAL SPECIFICATIONS:

3.1 MECHANICAL CONFIGURATION

The appearance of the antenna is in accordance with drawing ht291

3.2 CONNECTOR TYPE

The connector type is an embedded type.

4.0 ENVIRONMENTAL SPECIFICATIONS

4.1 TEMPERATURE

Operating Temperature Range: -40°C ~ +85°C

Storage Temperature Range: -40°C ~ +120°C

4.2 SALT SPRAY TEST

Antenna be exposed in a 35°C, 5% salt fog chamber for 24 hours then check the appearance and performance against the specifications in normal temperature.

4.3 STATIC HUMIDITY TEST

The antenna is subjected to the following test:

Temperatures: +70°C and 90%--95%RH

Test Duration: 24 Hours

The antenna should not undergo any structural or functional change and remain within the electrical/mechanical specification.

5.0 **PACKAGING**

The antennas will be packed in bags, There are 100 or 200 antennas per bag. The bags are packed in corrugated fibreboard over box.

6.0 Antenna drawing:

