



# 深圳市红心科技电子有限公司

## 产品承认书

SPECIFICATION FOR APPROVAL

公司名称: \_\_\_\_\_

品 名: FPC 天线

料 号: HX-FPC58-238-75A-QCWKJ

客户料号: \_\_\_\_\_

规 格: 详见规格书

日 期: 2025-05-07

客户回签:

工程部	品质部	批准

深圳市红心科技电子有限公司

工程部	品质部	批准
庄伟峰	张欢	刘卢

# 红心天线

## 1. Antenna parameters

Design Specifications	Typical	Units
天线形式	FPC 天线	
工作频率 (working Frequency)	2400-2500	MHZ
增益( Gain)	5	DBi
天线效率 (Antenna efficiency)	35~80	%
电压驻波比 (VSWR )	<1.8	
极化方式 (Polarization)	垂直极化	
辐射方向 (Radiation pattern)	全向	
馈电阻抗 (impedance)	50	ohm
功率容量 (Power handling)	33	dbm
天线接口 (Interface)	焊接	
天线尺寸 (Overall dimensions)	23*8	mm
重量 (Weight)	无要求	
工作温度 (Operatin Temp)	-30-70	°C
储存温度 (Storing Temp)	-30-70	°C

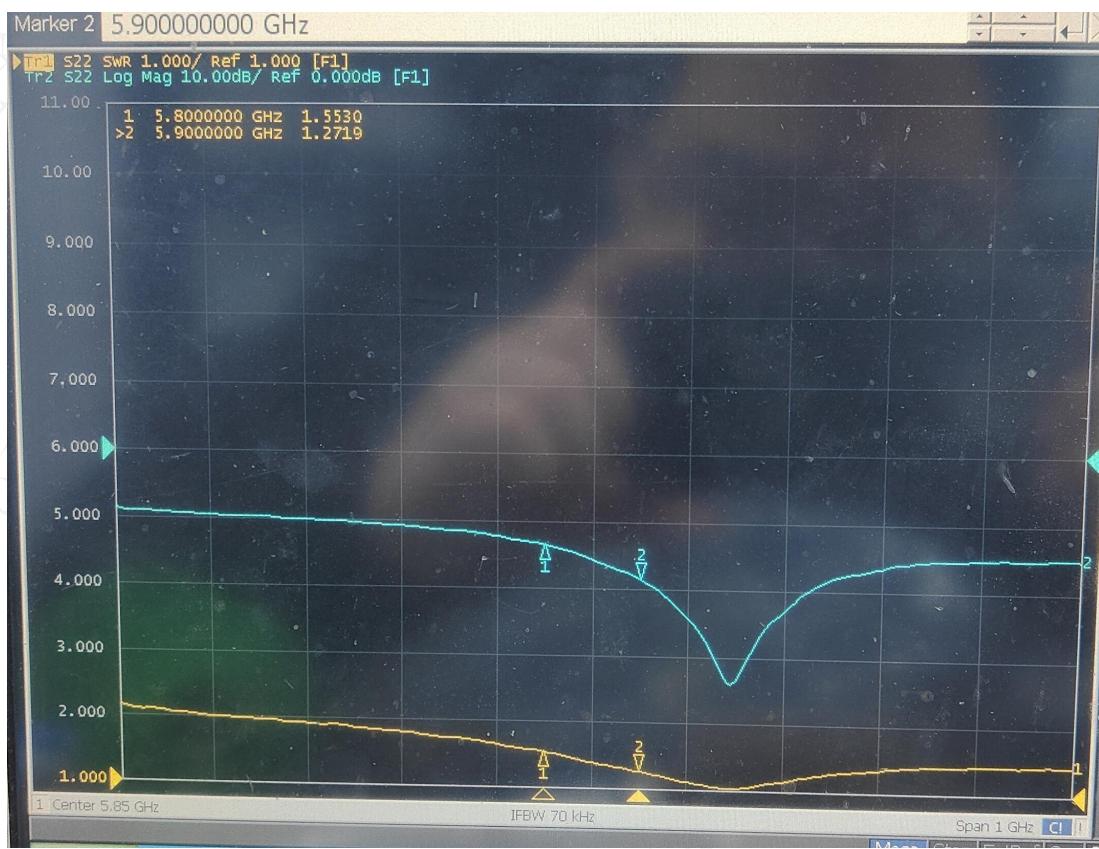


## 2. Physical picture of the antenna



Note: 1. The antenna parameters are tested based on the simulated environment. There may be performance deviations for different products  
2. The antenna function is rather sensitive. If there are any changes to the surrounding structure of the main body, please notify us for assessment

## 3. VSWR (Voltage Standing Wave Ratio) /Return Loss /Smith Chart (Smith's circle diagram)

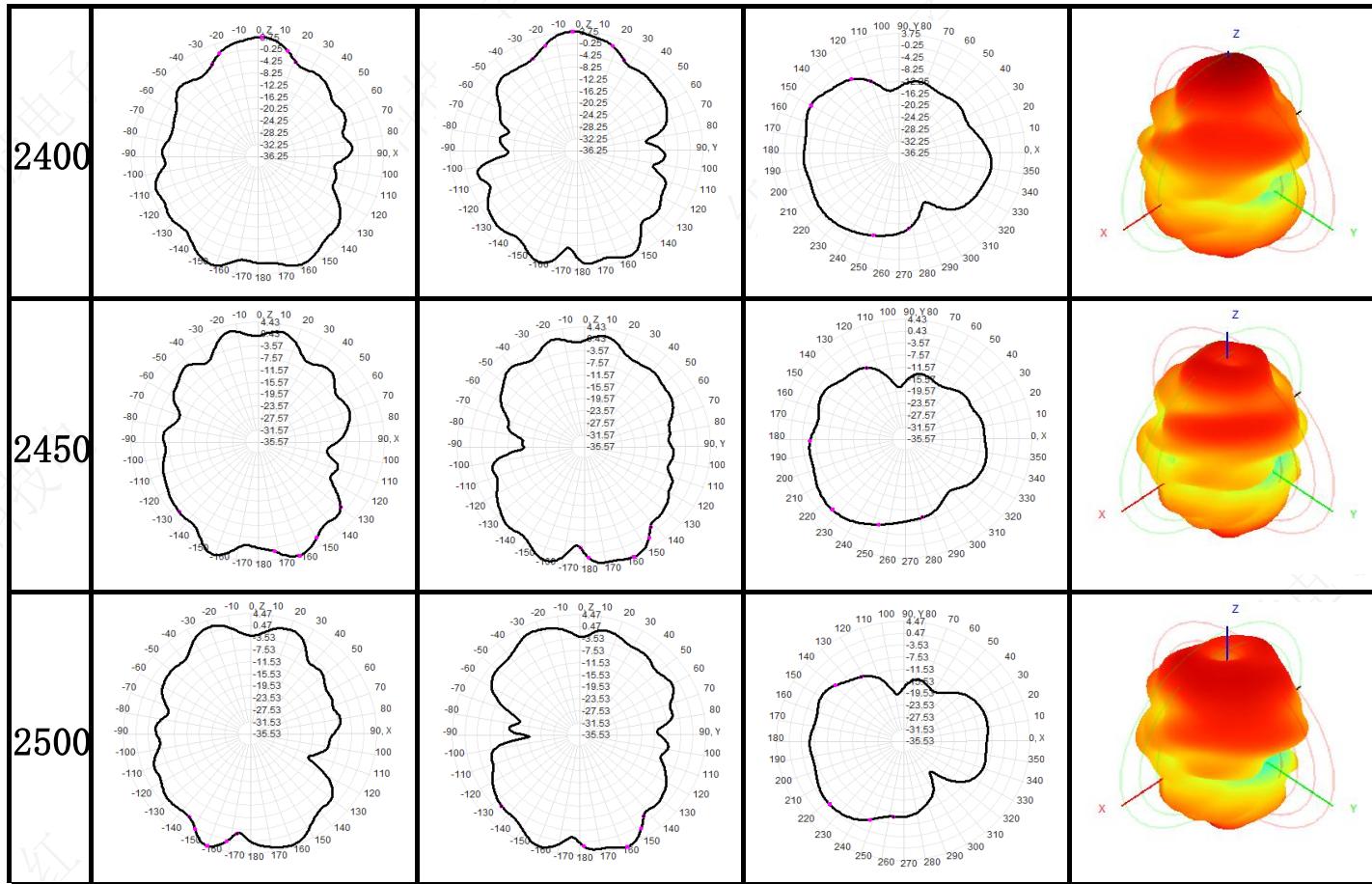


#### 4. Antenna gain, Efficiency and radiation pattern

Gain and efficiency:

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.30	4.49	4.76	5.04	5.47	5.80	5.84	5.74	5.69	5.50	5.45
Efficiency (%)	46.45	47.36	48.94	49.20	50.82	52.92	53.65	53.10	54.07	52.41	52.34

Antenna radiation map



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## 5. Dimensions and Specifications

