

# 红点信息科技（深圳）有限公司

RED DOT INFORMATION TECHNOLOGY SHENZHEN CO., LTD

## 产品规格书

PRODUCT SPECIFICATION

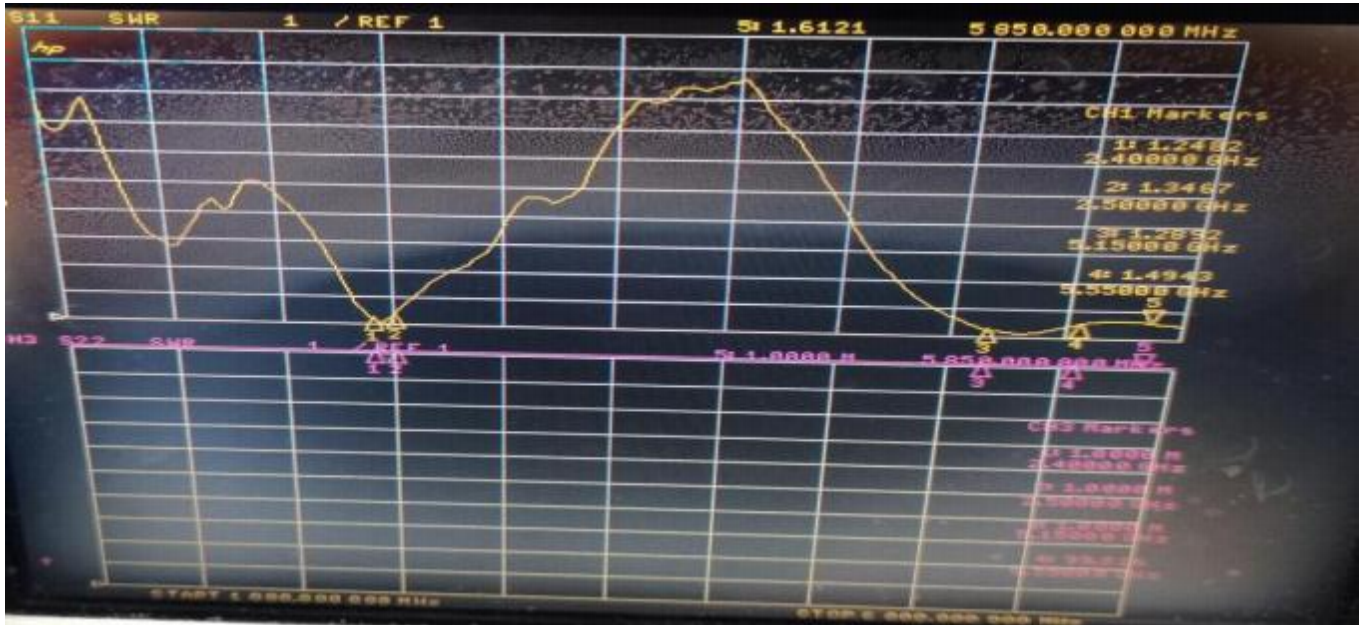
客户 customer	
客户编码 customer part number	
产品料号 product Materialcode	
工作频段 working Band	5150MHz-5850MHz
发行日期 Issue Date	2024-06-22
发行版本 Releaseversion	A1
作者 Author	邹杨辰

# 一、产品技术指标 (Product technical indicators)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	5150-5850
输入阻抗 Input Impedance ( $\Omega$ )	50
频带宽度 Bandwidth (MHz)	700
电压驻波比 VSWR	<2
增益 Gain (dBi)	5.8G:1.96DBI
极化形式 Polarization Type	线极化
机械指标 Mechanical Specifications	
工作温度 OperatinTemp ( $^{\circ}\text{C}$ )	-40~85
储存温度 Storing Temp ( $^{\circ}\text{C}$ )	-40~85

## 二、驻波比 (VSWR)

Frequency(MHz)	5150	5550	5850
VSWR	1.28	1.49	1.61

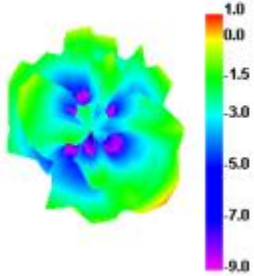


### 三、效率/增益 (Efficiency/Gain)

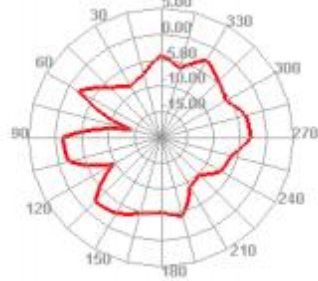
Passive Test For WiFi5.8								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	28.51	-5.45	1.75	-0.4	9.748	18.767	1.75	-22.42
5200	27.1	-5.67	1.27	-0.88	9.332	17.769	1.27	-21.97
5250	24.82	-6.05	1.14	-1.01	8.495	16.328	1.14	-21.41
5300	26.64	-5.75	1.61	-0.54	9.148	17.49	1.61	-22.53
5350	28.56	-5.44	1.79	-0.36	10.066	18.491	1.79	-21.56
5400	31.26	-5.05	1.96	-0.19	11.274	19.982	1.96	-19.75
5450	29.29	-5.33	1.58	-0.57	10.56	18.73	1.58	-22.66
5500	29.4	-5.32	1.38	-0.77	10.623	18.779	1.38	-25.45
5550	29.31	-5.33	1.54	-0.61	10.301	19.013	1.54	-24.81
5600	31.79	-4.98	1.8	-0.35	11.008	20.783	1.8	-27.38
5650	33.92	-4.7	1.94	-0.21	11.754	22.162	1.94	-29.29
5700	33.53	-4.75	1.65	-0.5	11.586	21.942	1.65	-29.75
5750	29.98	-5.23	1.22	-0.93	10.257	19.724	1.22	-34.66
5800	29.36	-5.32	1.3	-0.85	9.984	19.374	1.3	-29.54
5850	28.94	-5.39	1.67	-0.48	9.781	19.156	1.67	-23.34

## 四、方向性图(Directivity diagram)

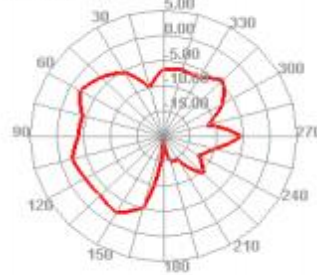
5150.000MHz



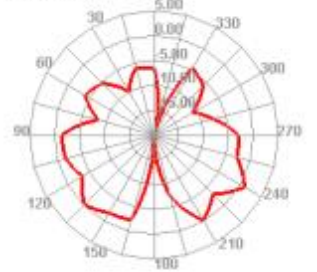
5150.000MHz H



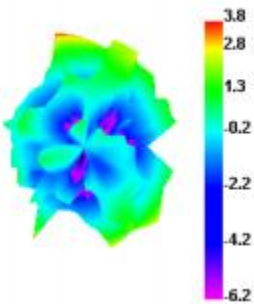
5150.000MHz E1



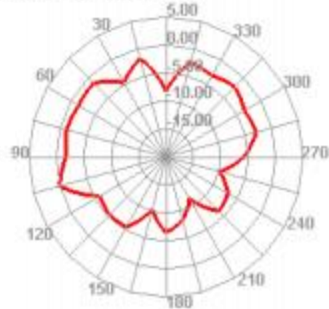
5150.000MHz E2



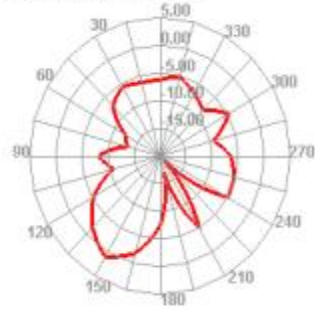
5500.000MHz



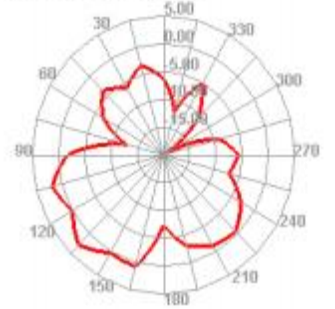
5500.000MHz H



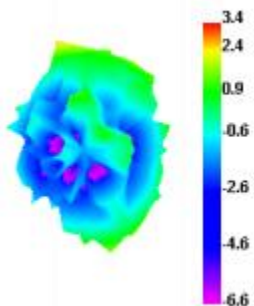
5500.000MHz E1



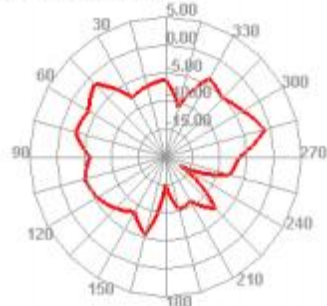
5500.000MHz E2



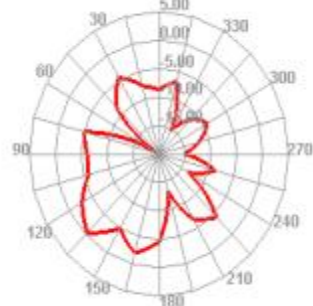
5850.000MHz



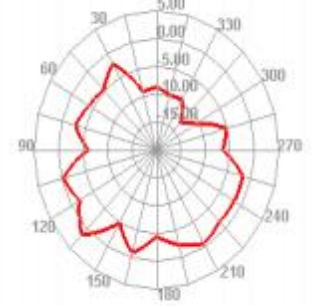
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



## 五、产品图纸 (Product drawing)

