

红点信息科技（深圳）有限公司

REDDOTINFORMATIONTECHNOIOGYSHENIZHENCO, LTD

产品规格书

PRODUCT SPECIFICATION

客户 Custoer	
天线类型 Antennatype	FPCantenna
产品料号 Product Materalcode	
工作频段 WorkingBand	2400-2500MHz/5150MHz-5850MHz
发行日期 LssueDate	2025-10-11
发行版本 Releae version	A5
作者 Author	Yangchen zou

catalogue

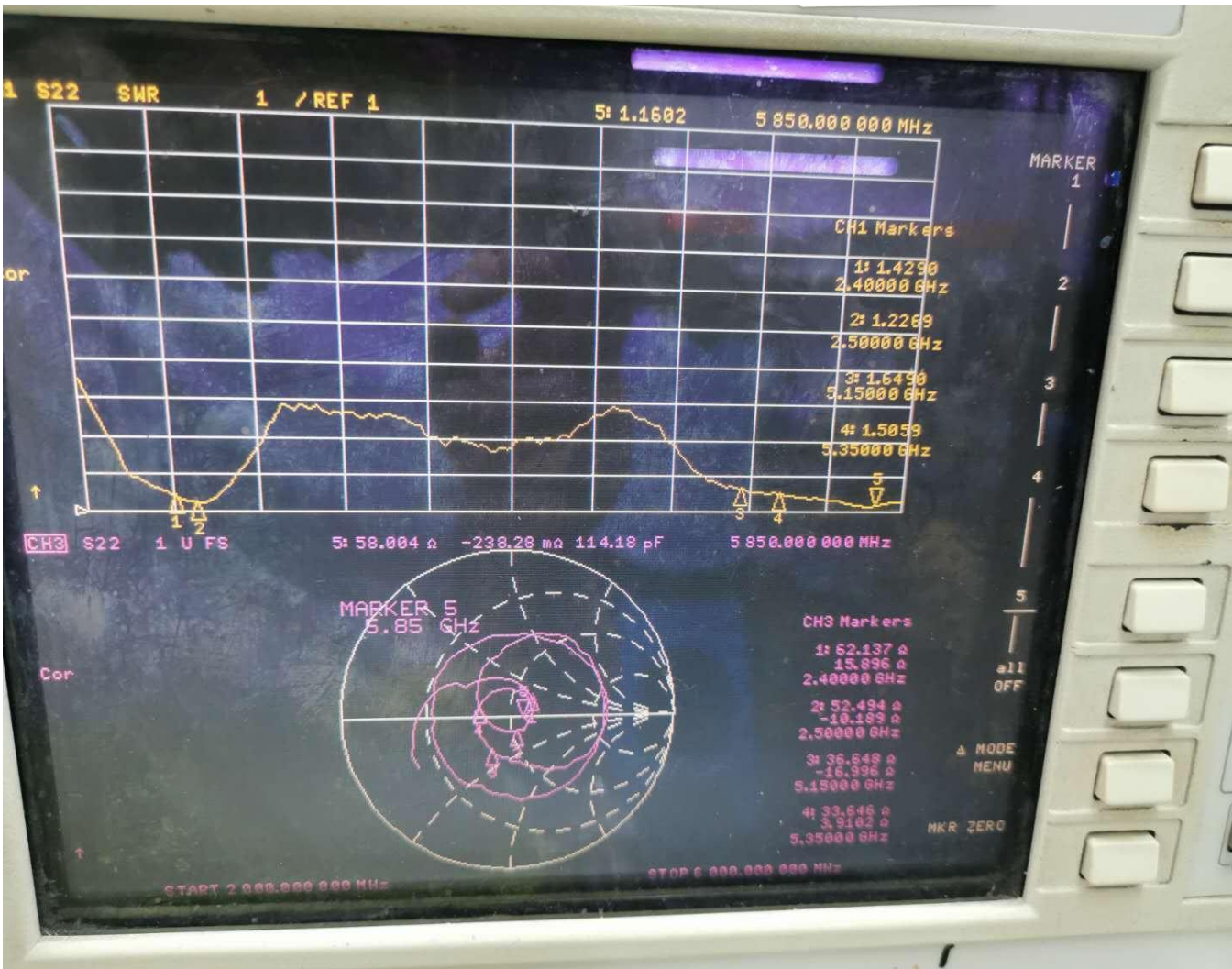
over.....	1
catalogue.....	2
Product Parameters.....	3
standing wave ratio.....	4
Efficiency/Gain.....	5
Directional diagram.....	6
Product drawing.....	7

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

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500/5150-5850
输入阻抗 Input Impedence(Ω)	50
频带宽度 Bandwidth (MHz)	100/700
电压驻波比 VSWR	<2.5
增益 Gain (dBi)	2.4G:3.29dbi 5.8G:4.45dbi
极化形式 Polarization Type	Linear polarization
机械指标 Mechanical Specifications	
连接器型号 Connect Type	IPEX
工作温度 OperatinTemp (°C)	-40~85
储存温度 Storing Temp (°C)	-40~85
天线颜色 Chassis Color	black
电缆 Cable	RFΦ1.13 lines long80mm

二、驻波比 (VSWR)

Frequency(MHz)	2400	2500	
VSWR	1.42	1.22	
Frequency(MHz)	5150	5850	
VSWR	1.64	1.16	



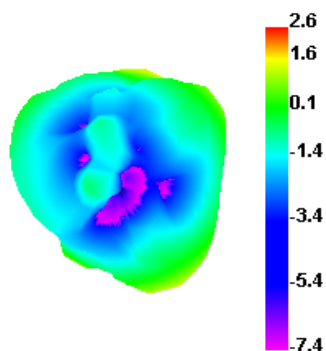
三、效率/增益 (Efficiency/Gain)

Passive Test For WiFi2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	37.7	-4.24	2.58	0.43	12.722	24.974	2.58	-18.7	6.82	15	45.86	46.02
2410	38.5	-4.15	2.65	0.5	13.14	25.363	2.65	-19.24	6.79	15	46.04	46.37
2420	40.08	-3.97	2.81	0.66	13.9	26.18	2.81	-18.77	6.78	15	45.95	46.25
2430	38.93	-4.1	2.7	0.55	13.731	25.196	2.7	-17.63	6.8	15	45.92	46.3
2440	43.43	-3.62	3.13	0.98	15.629	27.801	3.13	-15.69	6.75	15	45.94	46.38
2450	44.89	-3.48	3.17	1.02	16.499	28.392	3.17	-15.23	6.65	15	45.94	46.47
2460	44.56	-3.51	3	0.85	16.72	27.842	3	-15.19	6.51	15	45.88	46.51
2470	44.01	-3.56	2.78	0.63	16.817	27.192	2.78	-14.79	6.34	15	45.86	46.49
2480	45.89	-3.38	2.84	0.69	17.857	28.036	2.84	-14.98	6.23	15	45.98	46.69
2490	47.36	-3.25	2.93	0.78	18.778	28.585	2.93	-15.32	6.18	0	46.39	46.87
2500	52.19	-2.82	3.29	1.14	21.212	30.978	3.29	-13.51	6.11	45	46.23	47.02

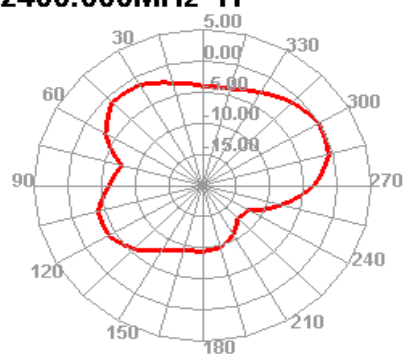
Passive Test For WiFi5.8												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	60.06	-2.21	3.8	1.65	29.89	30.165	3.8	-15.31	6.01	60	54.48	54.12
5200	61.25	-2.13	4.08	1.93	30.483	30.766	4.08	-18.35	6.2	60	54.14	53.77
5250	57.82	-2.38	3.89	1.74	28.897	28.926	3.89	-17.2	6.27	60	53.86	53.44
5300	62.05	-2.07	4.35	2.2	31.045	31.005	4.35	-23.36	6.43	60	54.19	53.75
5350	62.78	-2.02	4.21	2.06	31.597	31.18	4.21	-16.82	6.23	75	54.18	53.66
5400	65.59	-1.83	4.45	2.3	33.21	32.38	4.45	-23.1	6.28	75	54.95	54.05
5450	65.12	-1.86	4.22	2.07	33.387	31.733	4.22	-19.31	6.09	60	55.4	54.17
5500	64.64	-1.89	4.24	2.09	33.402	31.24	4.24	-21.87	6.13	60	56.09	54.42
5550	65.93	-1.81	4.25	2.1	34.482	31.443	4.25	-20.01	6.05	45	56.74	54.95
5600	62.16	-2.07	4.07	1.92	32.852	29.303	4.07	-22.78	6.14	60	56.95	55.35
5650	57.43	-2.41	3.68	1.53	30.574	26.859	3.68	-20.96	6.09	60	56.51	55.41
5700	57.34	-2.42	3.81	1.66	30.647	26.698	3.81	-30.14	6.22	60	56.56	55.74
5750	56.67	-2.47	4.2	2.05	29.993	26.677	4.2	-24.57	6.66	60	56.61	55.75
5800	54.09	-2.67	3.87	1.72	28.445	25.648	3.87	-20.42	6.54	60	56.74	55.72
5850	51.88	-2.85	3.65	1.5	27.102	24.776	3.65	-28.23	6.5	60	57.52	56.31

四、方向性图(Directivity diagram)

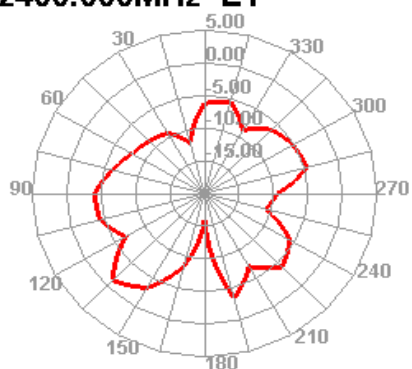
2400.000MHz



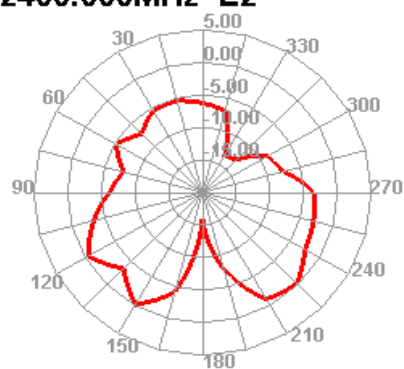
2400.000MHz H



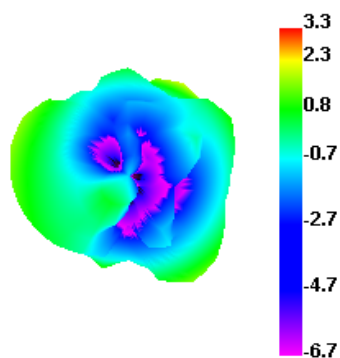
2400.000MHz E1



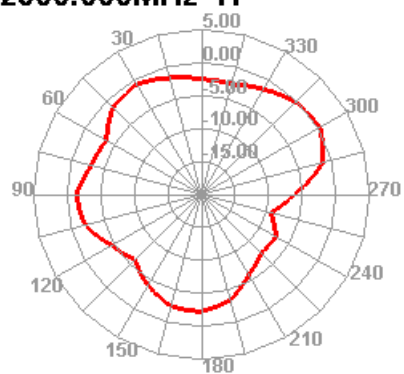
2400.000MHz E2



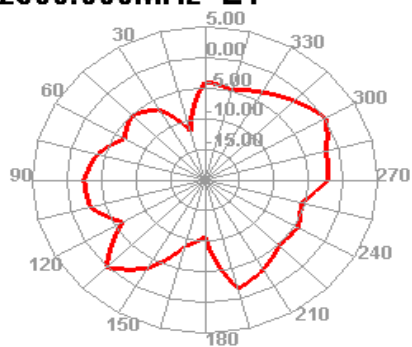
2500.000MHz



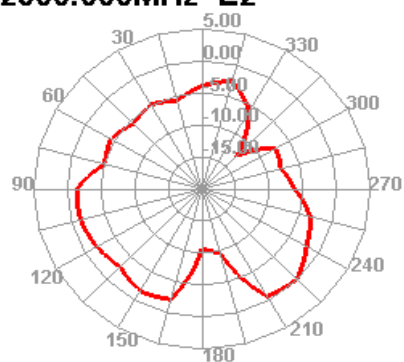
2500.000MHz H



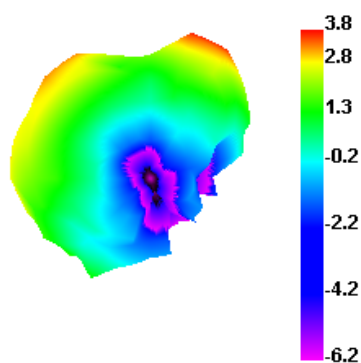
2500.000MHz E1



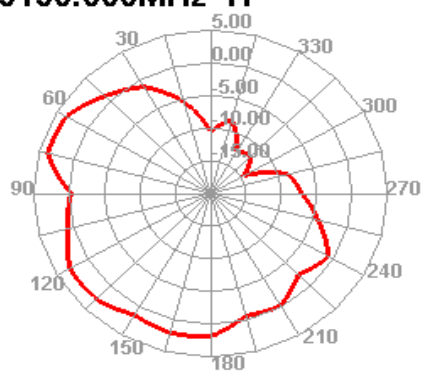
2500.000MHz E2



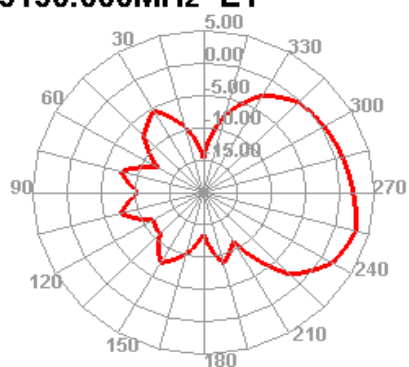
5150.000MHz



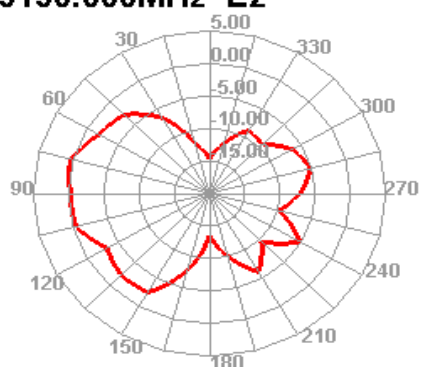
5150.000MHz H



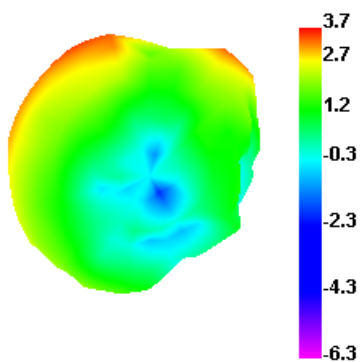
5150.000MHz E1



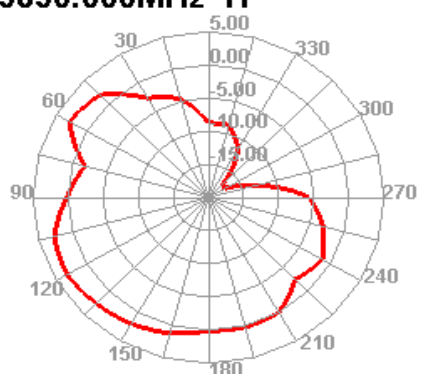
5150.000MHz E2



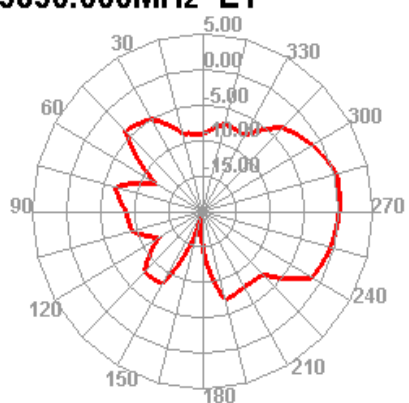
5850.000MHz



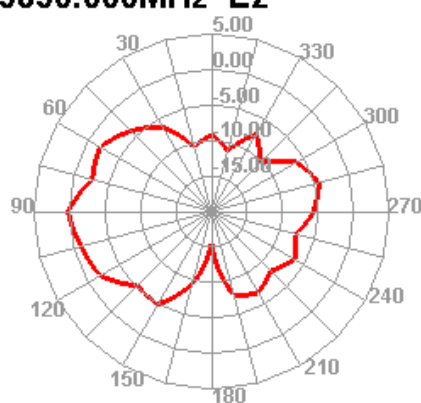
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



五、产品图纸 (Product drawing)

