

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 Antenna type	FPC antenna
产品料号 Product Materalcode	HD. F-40-7. 5-100-IPEX
工作频段 WorkingBand	2400MHz-2500MHz
发行日期 LssueDate	2025-10-11
发行版本 Releae version	A5
作者 Author	Yangchen zou

catalogue

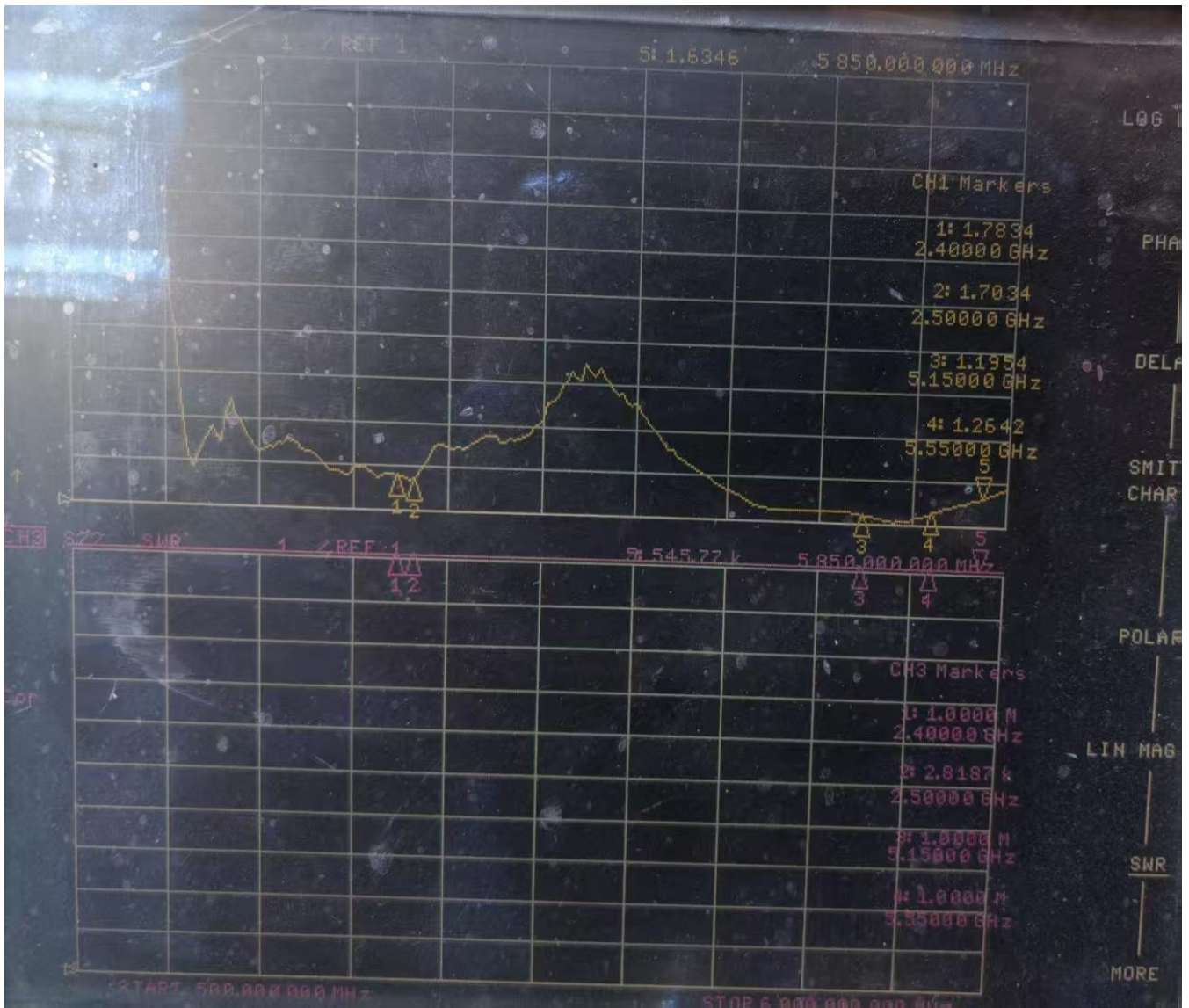
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一、产品技术指标 (Product technical indicators)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500
输入阻抗 Input Impedence(Ω)	50
频带宽度 Bandwidth (MHz)	100
电压驻波比 VSWR	<2
增益 Gain (dBi)	2.4G:2.01dbi
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 line length100mm

二、驻波比(VSWR)

Frequency(MHz)	2400	2500	
VSWR	1.78	1.70	

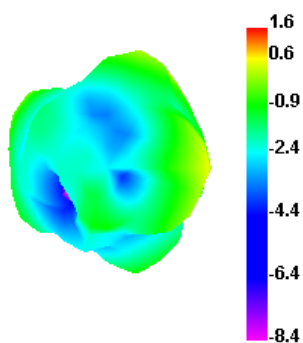


三、效率/增益 (Efficiency/Gain)

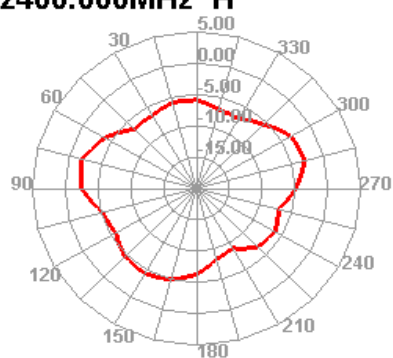
Passive Test For WiFi2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	39.4	-4.04	1.58	-0.57	15.342	24.06	1.58	-17.48	5.63	15	45.86	46.02
2410	42.67	-3.7	2.01	-0.14	16.358	26.317	2.01	-16.41	5.71	15	46.04	46.37
2420	38.8	-4.11	1.6	-0.55	14.569	24.228	1.6	-17.77	5.72	30	45.95	46.25
2430	39.25	-4.06	1.63	-0.52	14.341	24.91	1.63	-17.56	5.69	30	45.92	46.3
2440	36.27	-4.4	1.28	-0.87	12.84	23.433	1.28	-17.22	5.69	30	45.94	46.38
2450	36.65	-4.36	1.37	-0.78	12.57	24.08	1.37	-16.94	5.73	60	45.94	46.47
2460	38.49	-4.15	1.61	-0.54	12.899	25.593	1.61	-16.98	5.76	60	45.88	46.51
2470	38.87	-4.1	1.65	-0.5	12.828	26.046	1.65	-17.3	5.75	60	45.86	46.49
2480	36.58	-4.37	1.31	-0.84	11.887	24.692	1.31	-17.79	5.68	60	45.98	46.69
2490	40.56	-3.92	1.7	-0.45	12.904	27.652	1.7	-17.54	5.62	60	46.39	46.87
2500	32.9	-4.83	1.73	-1.42	10.191	22.705	0.73	-18.89	5.56	60	46.23	47.02

四、方向性图(Directivity diagram)

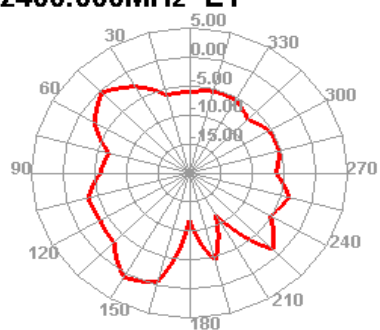
2400.000MHz



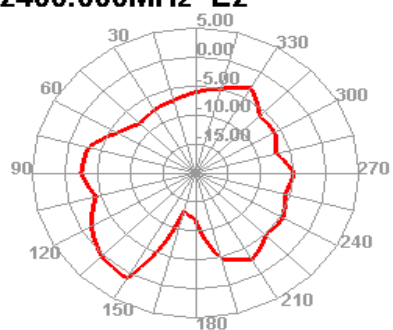
2400.000MHz H



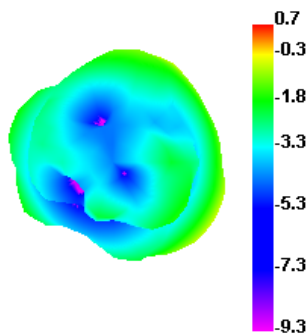
2400.000MHz E1



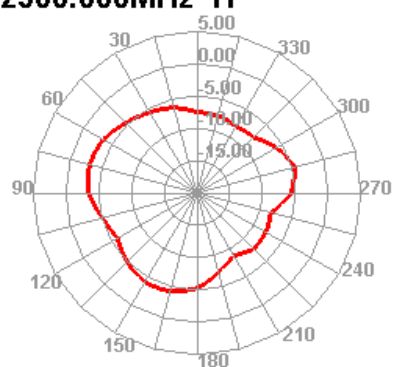
2400.000MHz E2



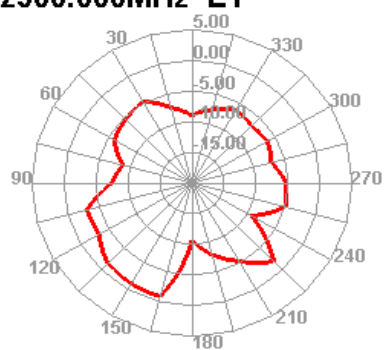
2500.000MHz



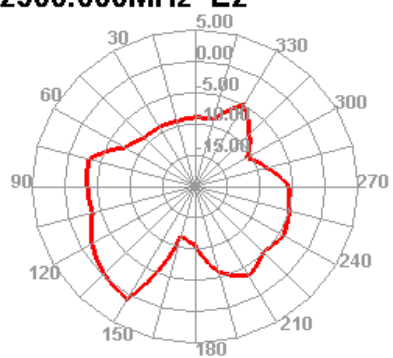
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



五、产品图纸 (Product drawing)

