

红点信息科技（深圳）有限公司

REDDOTINFORMATIONTECHNOIOGYSHENIZHENCO, LTD

产品规格书

PRODUCT SPECIFICATION

客户 Custoer	
客户编码 Customers part number	
产品料号 Product Materalcde	HD. F-40-7. 5-80-IPEX
工作频段 WorkingBand	2400-2500MHz/5150MHz-5850MHz
发行日期 LssueDate	2024-06-27
发行版本 Releae version	A11
作者 Author	邹杨辰

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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)	2400-2500/5150-5850
输入阻抗 Input Impedence (Ω)	50
频带宽度 Bandwidth (MHz)	100/700
电压驻波比 VSWR	<2
增益 Gain (dBi)	2.4G:3.27dbi 5.8G:6.77dbi
极化形式 Polarization Type	线极化
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	黑色
电缆 Cable	RF Φ0.81 线长80mm

二、驻波比 (VSWR)

Frequency(MHz)	2400	2500	
VSWR	1.13	1.36	
Frequency(MHz)	5150	5550	
VSWR	1.91	1.58	



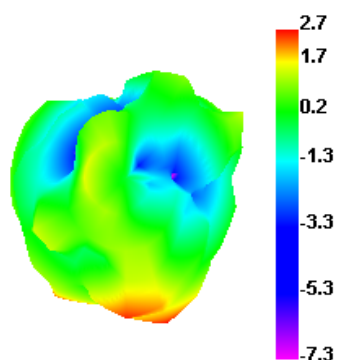
三、效率/增益 (Efficiency/Gain)

Passive Test For WiFi2.4											
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	AttH (dB)	AttV (dB)
2400	58.75	-2.31	2.74	0.59	25.692	33.054	2.74	-17.96	5.05	45.82	46.01
2410	61.1	-2.14	3.12	0.97	26.655	34.444	3.12	-18.25	5.26	45.87	46.24
2420	60.3	-2.2	3.24	1.09	26.296	33.999	3.24	-18.83	5.43	45.73	46.1
2430	59.4	-2.26	3.26	1.11	25.953	33.443	3.26	-19.76	5.52	45.66	45.99
2440	60.72	-2.17	3.27	1.12	26.717	34.004	3.27	-19.84	5.43	45.84	46.29
2450	62.85	-2.02	3.25	1.1	27.929	34.922	3.25	-19.53	5.27	46.01	46.42
2460	63.14	-2	3.06	0.91	28.299	34.841	3.06	-19.46	5.05	46.02	46.64
2470	62.69	-2.03	2.8	0.65	28.222	34.471	2.8	-19.01	4.83	46.14	46.65
2480	62.28	-2.06	2.64	0.49	27.969	34.313	2.64	-18.8	4.7	46.47	47.13
2490	65.52	-1.84	2.93	0.78	29.199	36.316	2.93	-18.59	4.76	46.95	47.32
2500	63.39	-1.98	2.83	0.68	28.114	35.273	2.83	-18.69	4.81	46.86	47.55

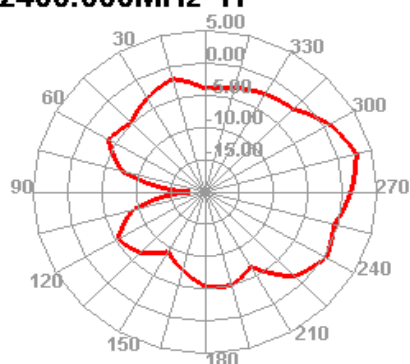
Passive Test For WiFi5.8											
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	AttH (dB)	AttV (dB)
5150	59.4	-2.26	5.78	3.63	25.825	33.577	5.78	-20.86	8.04	54.81	54.47
5200	60.49	-2.18	6.38	4.23	26.832	33.66	6.38	-20.34	8.56	55.16	54.79
5250	60.34	-2.19	6.57	4.42	27.482	32.857	6.57	-21.65	8.76	54.9	54.45
5300	62.9	-2.01	6.77	4.62	28.973	33.926	6.77	-24.26	8.79	55.21	54.59
5350	64.38	-1.91	6.59	4.44	29.692	34.687	6.59	-21.58	8.51	55.29	54.63
5400	61.52	-2.11	6.15	4	28.039	33.484	6.15	-24.52	8.26	55.91	54.94
5450	60.71	-2.17	6.17	4.02	28.187	32.526	6.17	-20.31	8.34	56.06	54.85
5500	56.93	-2.45	6.14	3.99	26.55	30.384	6.14	-23.38	8.59	56.73	55.14
5550	57.63	-2.39	6.21	4.06	26.694	30.936	6.21	-24.43	8.61	57.68	55.97
5600	55.79	-2.53	6.03	3.88	25.787	30.007	6.03	-26.84	8.57	57.64	56.07
5650	53.24	-2.74	5.51	3.36	24.368	28.875	5.51	-30.07	8.25	57.08	55.95
5700	59.48	-2.26	5.87	3.72	27.716	31.762	5.87	-22.74	8.13	57.02	56.05
5750	59.56	-2.25	5.77	3.62	27.724	31.832	5.77	-24.83	8.02	57.39	56.46
5800	59.66	-2.24	5.97	3.82	27.851	31.812	5.97	-22.44	8.22	57.39	56.35
5850	60.76	-2.16	6.12	3.97	28.206	32.55	6.12	-22.2	8.29	57.78	56.58

四、方向性图(Directivity diagram)

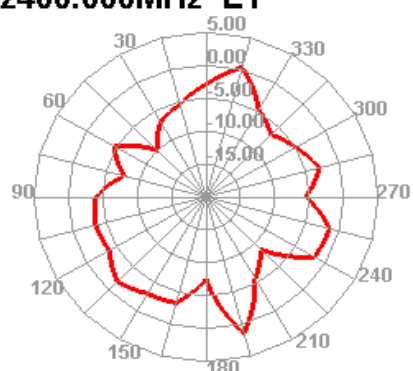
2400.000MHz



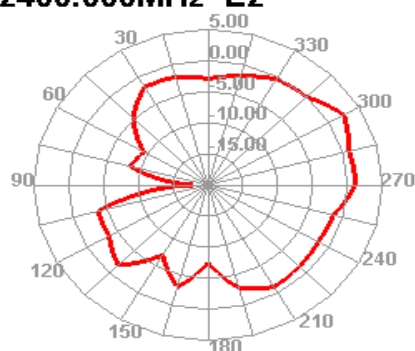
2400.000MHz H



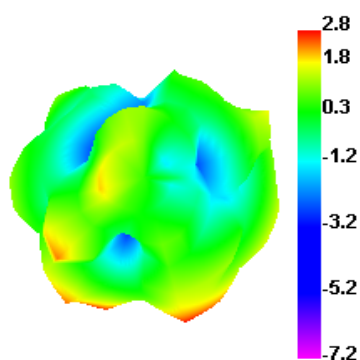
2400.000MHz E1



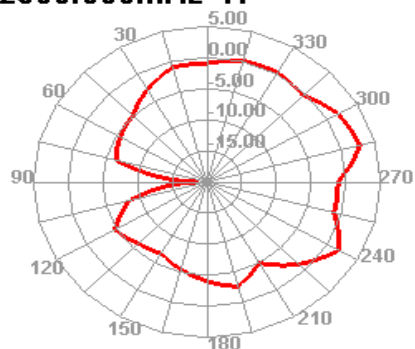
2400.000MHz E2



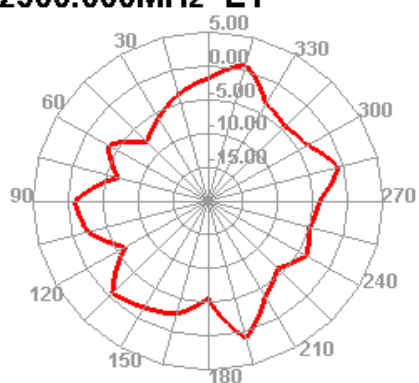
2500.000MHz



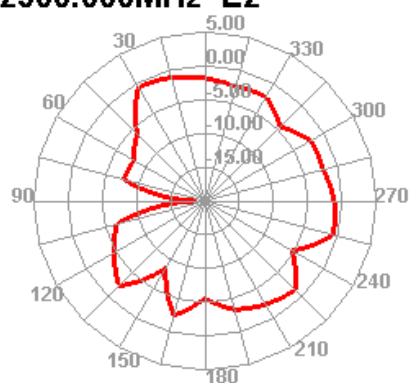
2500.000MHz H



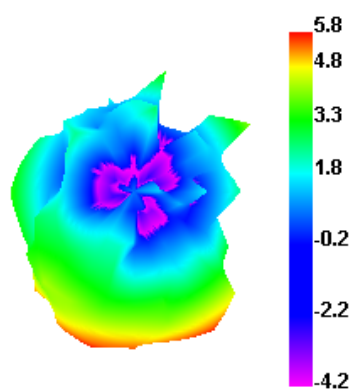
2500.000MHz E1



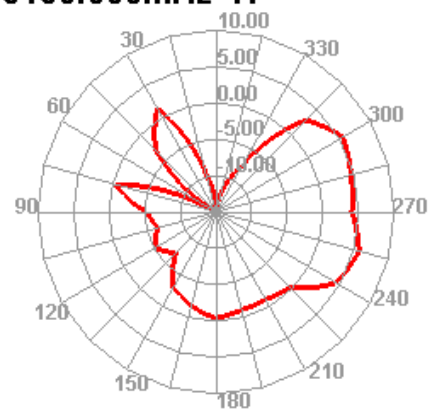
2500.000MHz E2



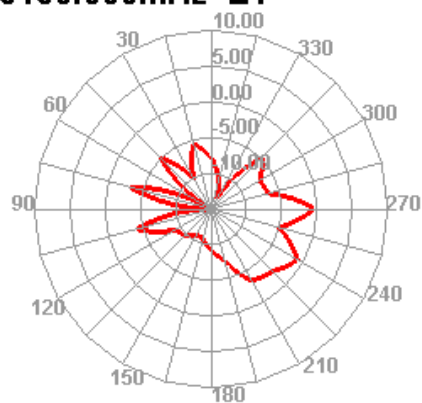
5150.000MHz



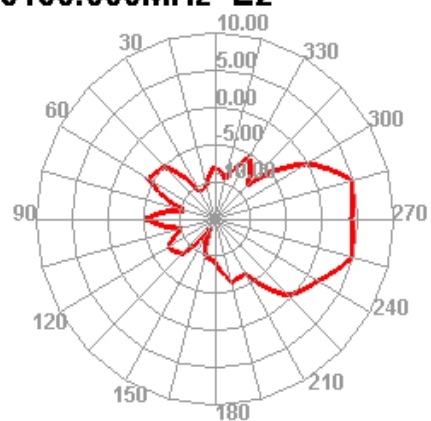
5150.000MHz H



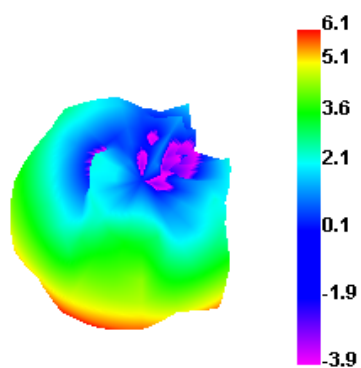
5150.000MHz E1



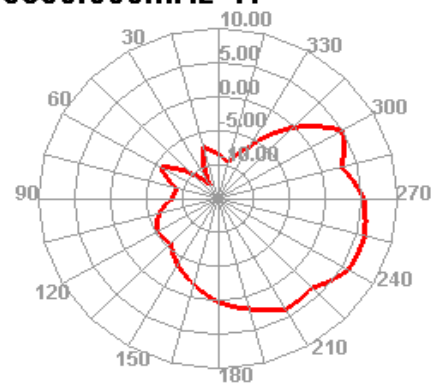
5150.000MHz E2



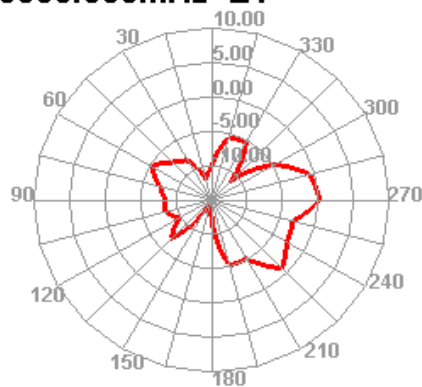
5850.000MHz



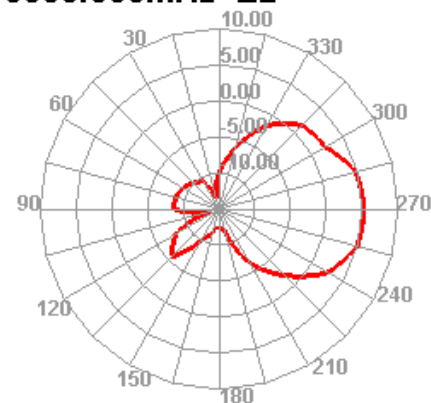
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



五、产品图纸 (Product drawing)

