

东莞市淼泰电子有限公司
Dongguan MiaoTEC Electronics Co.,Ltd.
承认书
Specification For Approval

品名
(DESCRIPTION):

RF Antenna ASSEMBLY
1.13 Cable 黑色 L50mm + 2.4/5.8G FPC+IPEX PLUG

客户料号
(PART NO):

CP0850

料 号
(PART NO):

500101-00110-016R

送样日期
(DATE):

2025. 02. 19

版本
Revision:

A1

承认号码
(APPROVED
NO):

MT. 承-250219-002

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

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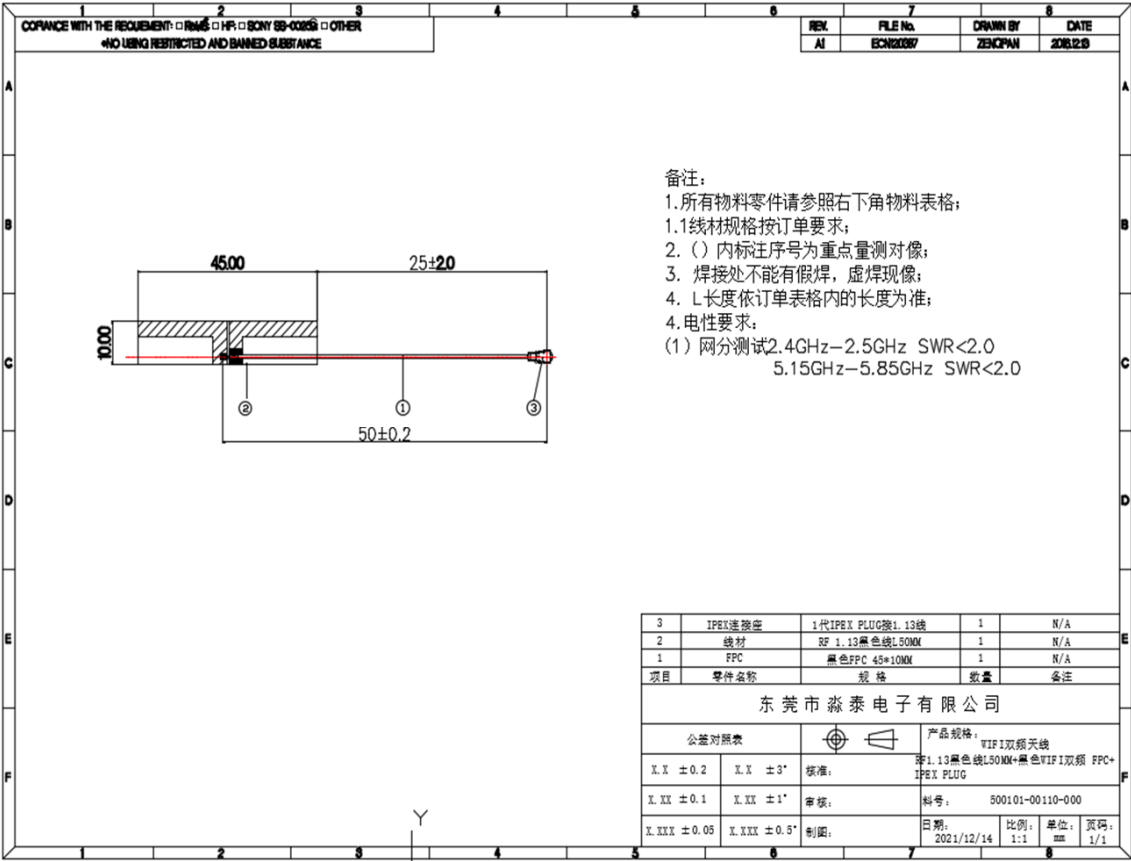
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电气参数 Electrical Specifications		
频率范围 Frequency range (MHz)	2.4-2.5GHz	5.15-5.85GHz
带宽 Bandwidth (MHz)	100MHz	700MHz
增益 Gain (dBi)	4dBi	2dBi
半功率波瓣宽度 Half-power beam width(°)	H:360 V:14	
电压驻波比 VSWR	≤3.5	
输入阻抗 Input Impedance(Ω)	50	
极化方式 Polarization	垂直Vertical	
最大功率 Maximum input power (W)	50	
雷电保护 Lightning protection	直流接地 DC Ground	
接头型号 Input connector type	1代IPEX PLUG	
机械参数 Mechanical Specifications		
天线尺寸 Dimensions (mm)	见工程图	
天线重量 Antenna weight (kg)	2g	
工作温度 Operating temperature (℃)	~40-55	
天线颜色 Antenna color	White(黑色)	

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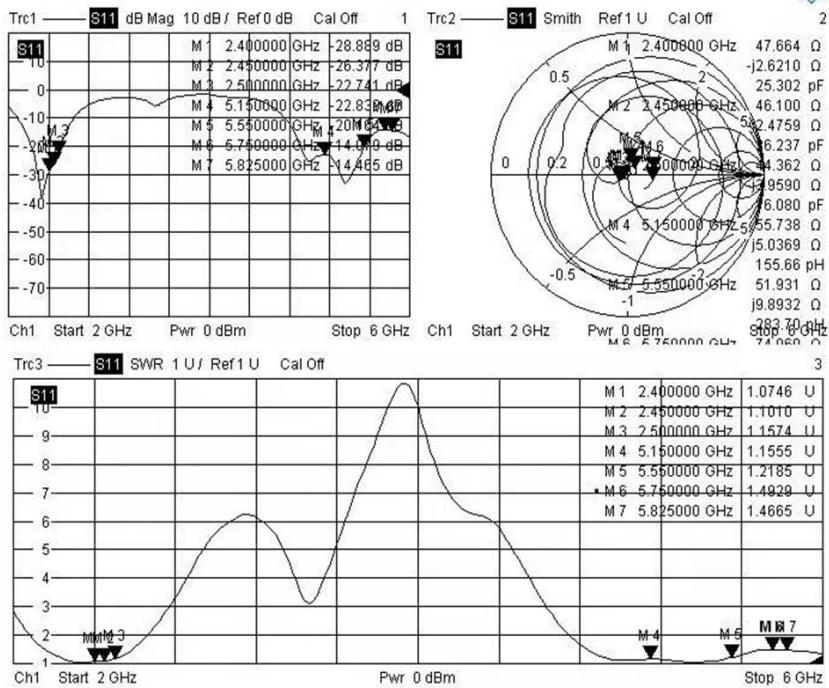
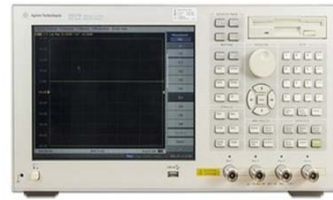
产品图纸
Product drawing



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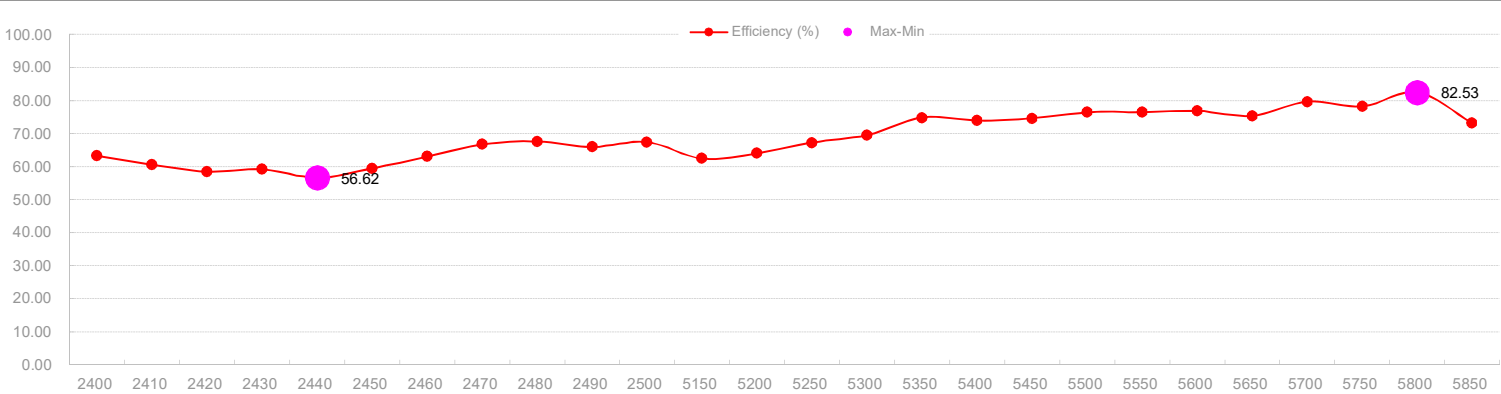
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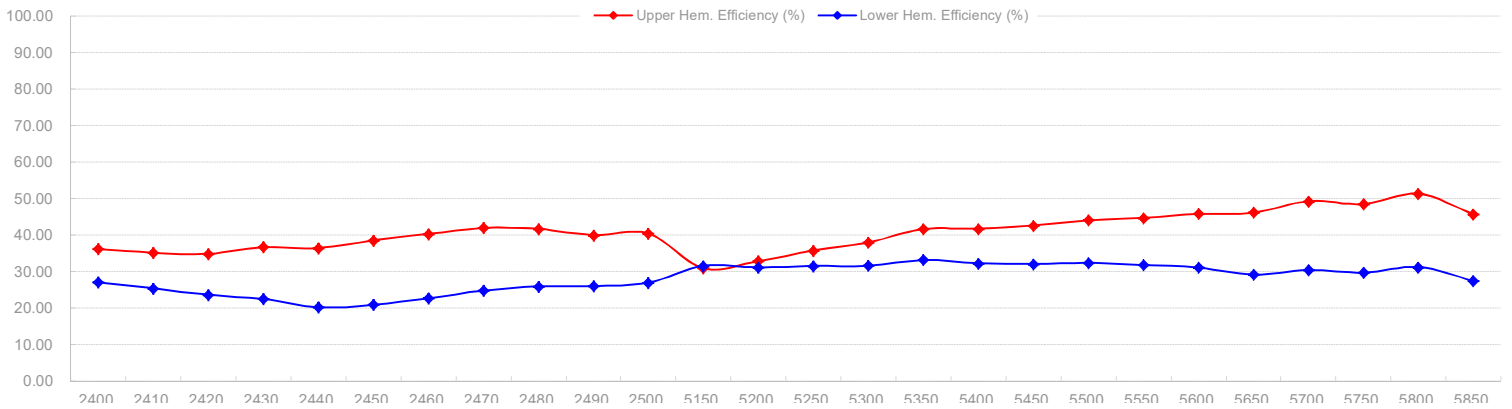
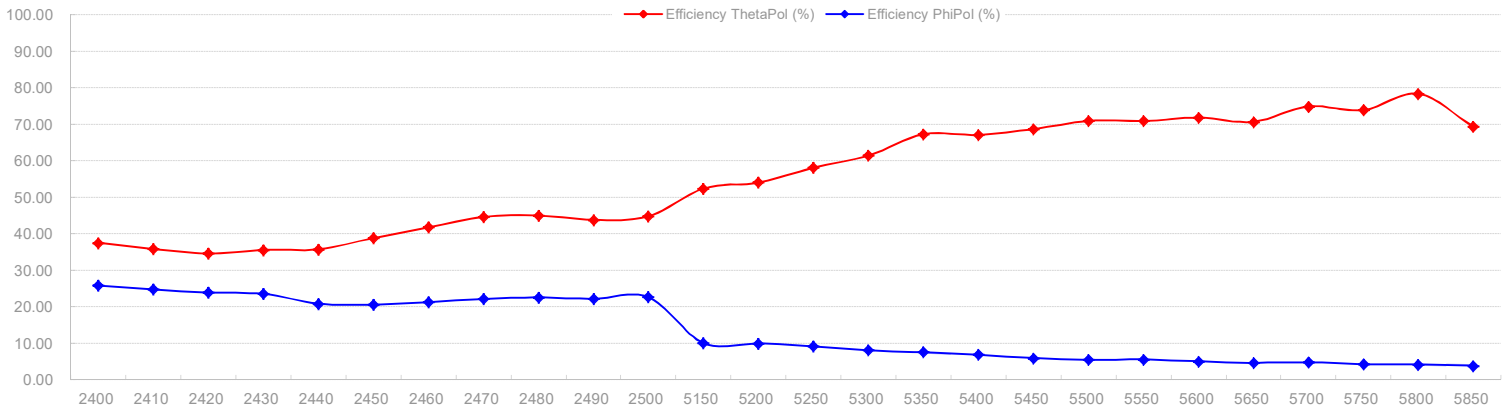
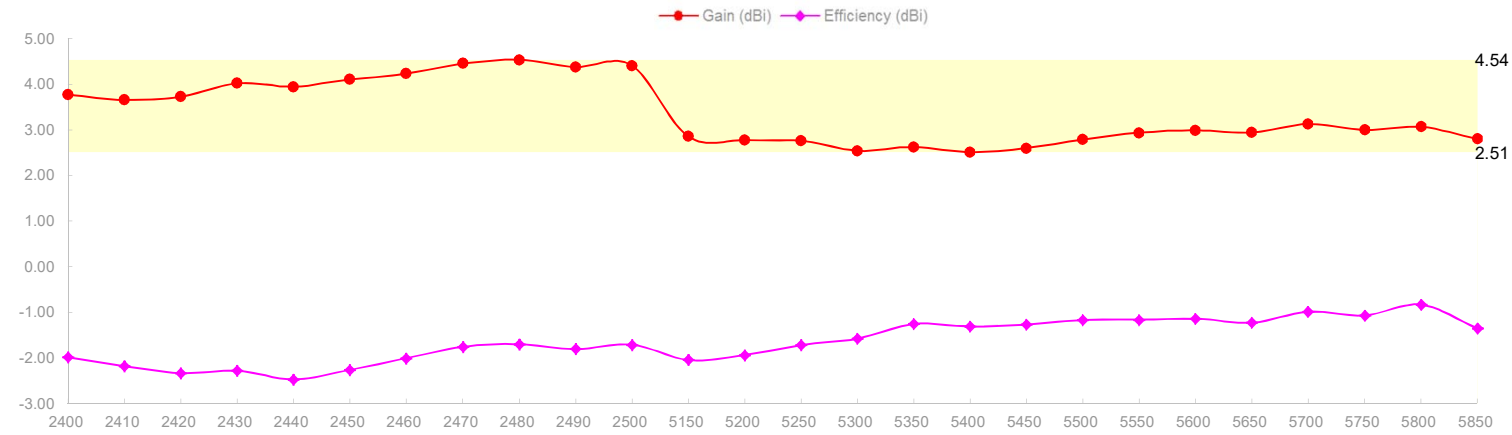
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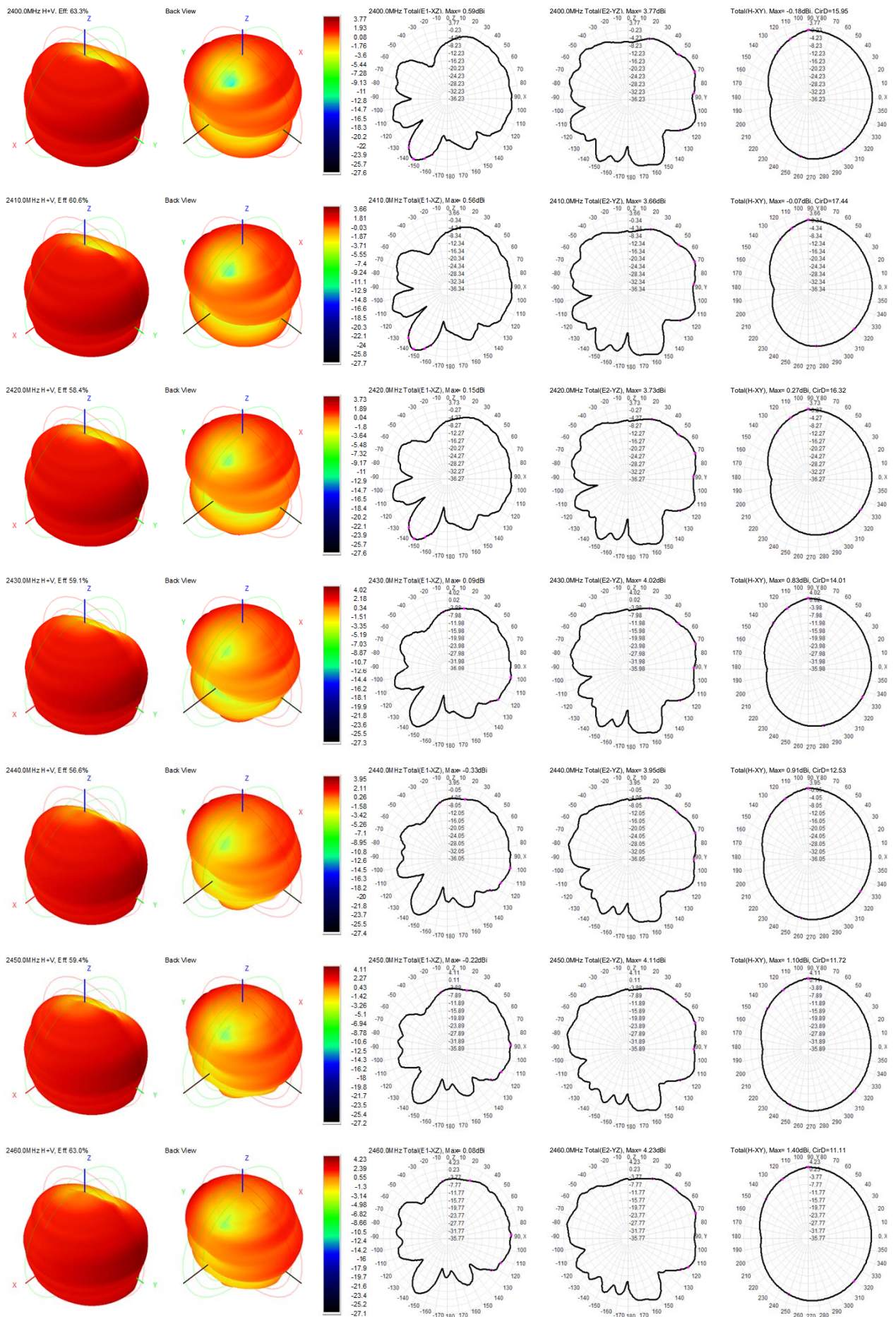


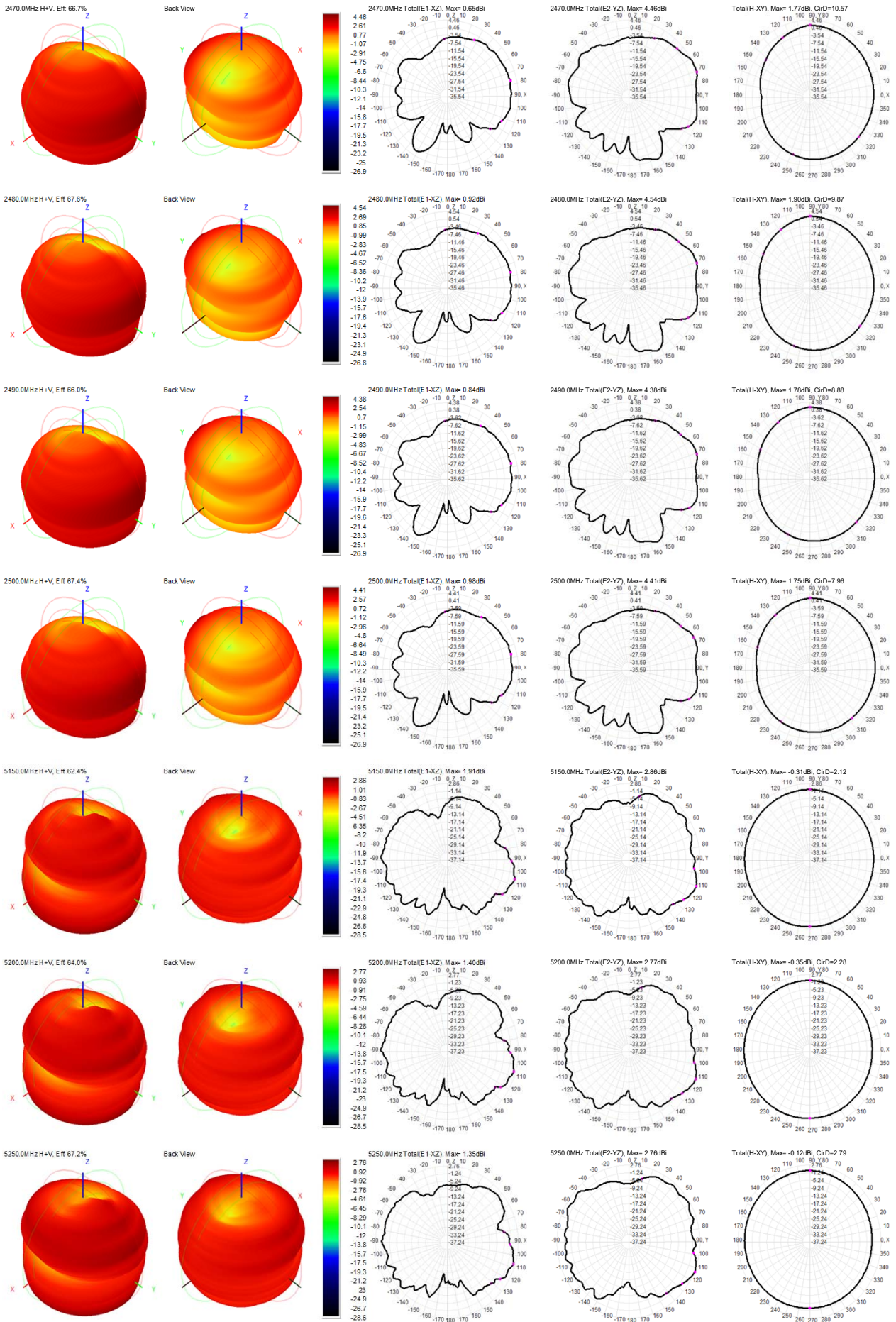


T90(H)圆度	15.95	17.44	16.32	14.01	12.53	11.72	11.11	10.57	9.87	8.88	7.96	2.12	2.28	2.79	2.78	1.74	1.79	1.99	1.92	2.03	2.10	2.35	3.06	3.38	3.56	4.42
Gain 15deg (dBi)																										
E1(XZ)波瓣宽度	18.00	18.00	18.00	103.00	95.00	92.00	90.00	86.00	82.00	80.00	79.00	29.00	31.00	31.00	32.00	32.00	38.00	38.00	68.00	65.00	63.00	62.00	63.00	65.00	66.00	67.00
E1(XZ)前后比	0.03	0.05	0.04	0.74	1.79	2.50	2.81	3.16	3.24	2.96	2.55	6.21	6.45	7.13	7.70	8.59	9.32	9.23	10.04	9.93	9.79	10.03	9.15	8.21	7.23	6.14
E2(YZ)波瓣宽度	34.00	35.00	37.00	39.00	42.00	44.00	68.00	68.00	66.00	63.00	62.00	27.00	27.00	27.00	27.00	28.00	24.00	23.00	44.00	44.00	44.00	43.00	44.00	53.00	63.00	61.00
E2(YZ)前后比	1.88	2.09	2.53	3.23	3.98	4.33	4.22	3.97	3.77	3.52	3.36	6.45	5.97	5.83	5.55	6.15	6.69	7.11	7.57	7.75	8.53	9.52	9.13	9.06	8.32	8.34
最大增益处轴比(P)	19.28	12.85	8.08	10.23	29.40	13.91	11.85	9.81	7.94	6.41	7.30	16.07	12.45	9.29	8.81	8.25	7.10	5.65	24.43	32.91	28.56	22.45	14.92	15.49	39.15	23.40
顶点(Theta=0)处轴比(P)	2.21	0.61	3.82	6.99	9.53	11.20	12.58	14.58	17.21	23.41	46.14	7.68	20.86	47.16	21.00	25.95	11.87	7.80	3.80	2.89	4.41	9.15	12.39	12.85	11.23	8.79
仰角10度最差(大)轴比(P)	53.49	81.98	45.57	56.50	47.62	50.17	50.89	58.92	52.99	53.41	52.10	71.88	56.76	51.91	64.21	61.70	63.73	52.51	58.20	55.25	73.24	57.77	60.09	55.63	50.66	57.24
Hc(XY)波瓣宽度	160.00	145.00	135.00	136.00	142.00	154.00	156.00	153.00	153.00	162.00	171.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	358.00	340.00	332.00	298.00
Hc(XY)前后比	3.42	4.55	5.47	5.21	4.23	3.64	3.62	3.87	4.02	3.81	3.61	1.60	1.62	2.14	1.97	1.00	0.97	0.92	0.73	0.62	0.44	0.09	0.01	0.08	0.14	0.19
左旋圆极化效率(%)	39.92	38.97	37.89	37.76	34.94	35.47	37.06	38.99	39.04	37.33	37.35	31.56	32.77	35.08	35.88	38.03	37.91	38.66	40.58	41.75	42.13	40.13	41.84	40.63	41.62	36.16
右旋圆极化效率(%)	23.34	21.59	20.56	21.39	21.68	23.95	25.95	27.73	28.54	28.64	30.04	30.86	31.23	32.17	33.67	36.77	36.07	35.94	35.83	34.75	34.74	35.22	37.82	37.58	40.90	36.98

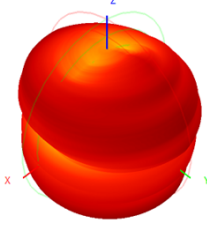




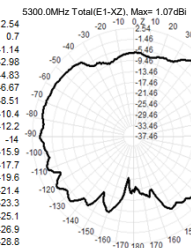
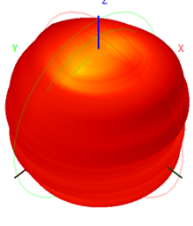




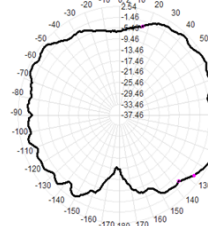
5300.0MHz H+V, Eff: 69.5%



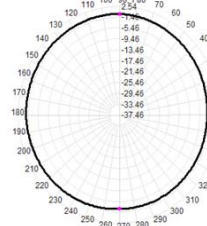
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5300.0MHz Total(E1-XZ), Max= 1.07dBi



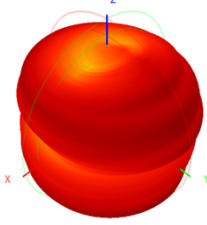
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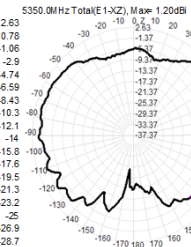
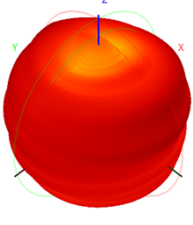
Total(H+V), Max= -0.25dBi, CirD=2.78



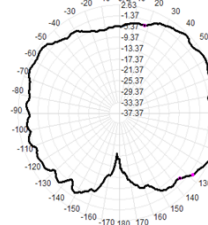
5350.0MHz H+V, Eff: 74.6%



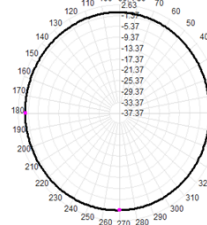
Back View



5350.0MHz Total(E1-XZ), Max= 1.20dBi



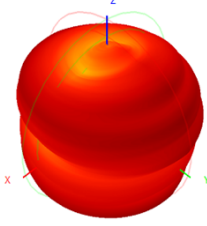
5350.0MHz Total(E2-YZ), Max= 2.63dBi



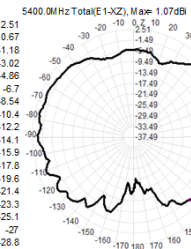
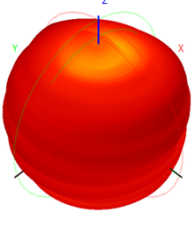
Total(H+V), Max= -0.11dBi, CirD=1.74



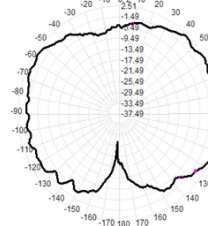
5400.0MHz H+V, Eff: 74.0%



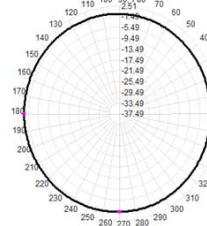
Back View



5400.0MHz Total(E1-XZ), Max= 1.07dBi



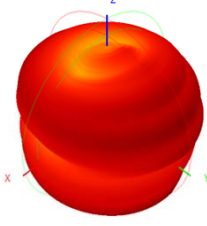
5400.0MHz Total(E2-YZ), Max= 2.51dBi



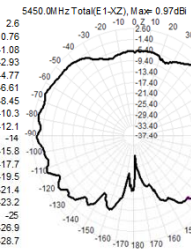
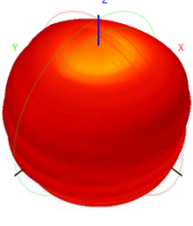
Total(H+V), Max= 0.18dBi, CirD=1.79



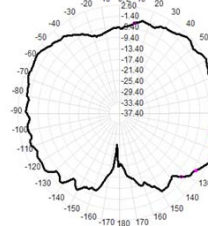
5450.0MHz H+V, Eff: 74.6%



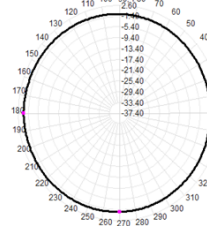
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5450.0MHz Total(E1-XZ), Max= 0.97dBi



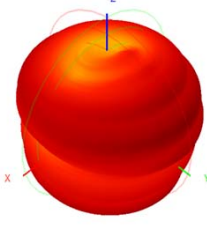
5450.0MHz Total(E2-YZ), Max= 2.60dBi



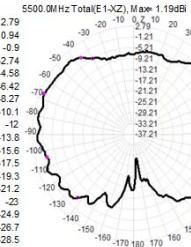
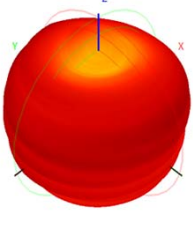
Total(H+V), Max= 0.41dBi, CirD=1.99



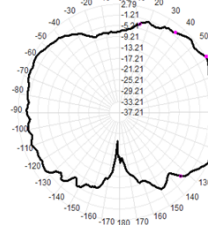
5500.0MHz H+V, Eff: 76.4%



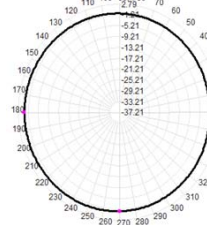
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5500.0MHz Total(E1-XZ), Max= 1.19dBi



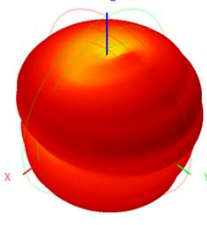
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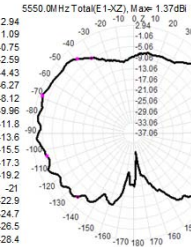
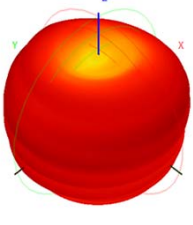
Total(H+V), Max= 0.32dBi, CirD=1.92



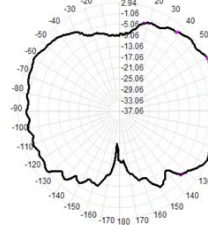
5550.0MHz H+V, Eff: 76.5%



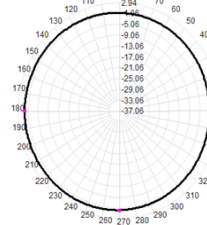
Back View



5550.0MHz Total(E1-XZ), Max= 1.37dBi



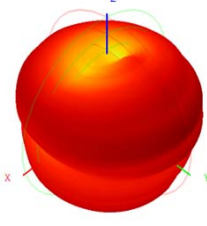
5550.0MHz Total(E2-YZ), Max= 2.94dBi



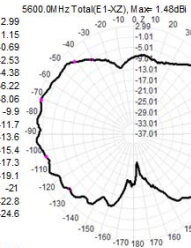
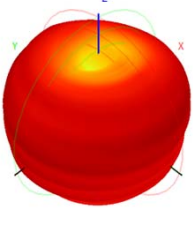
Total(H+V), Max= 0.40dBi, CirD=2.03



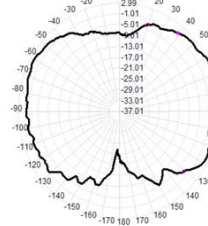
5600.0MHz H+V, Eff: 76.5%



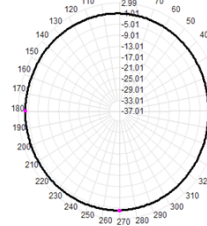
Back View



5600.0MHz Total(E1-XZ), Max= 1.48dBi



5600.0MHz Total(E2-YZ), Max= 2.99dBi



Total(H+V), Max= 0.20dBi, CirD=2.10



