

SPECIFICATION

Shenzhen Guandetong Electronic Limited



深圳市冠得通电子有限公司

Shenzhen Guandetong Electronic Co., Ltd.

2.4、5.8G FPC

(1.13 *150MM)

Product specification

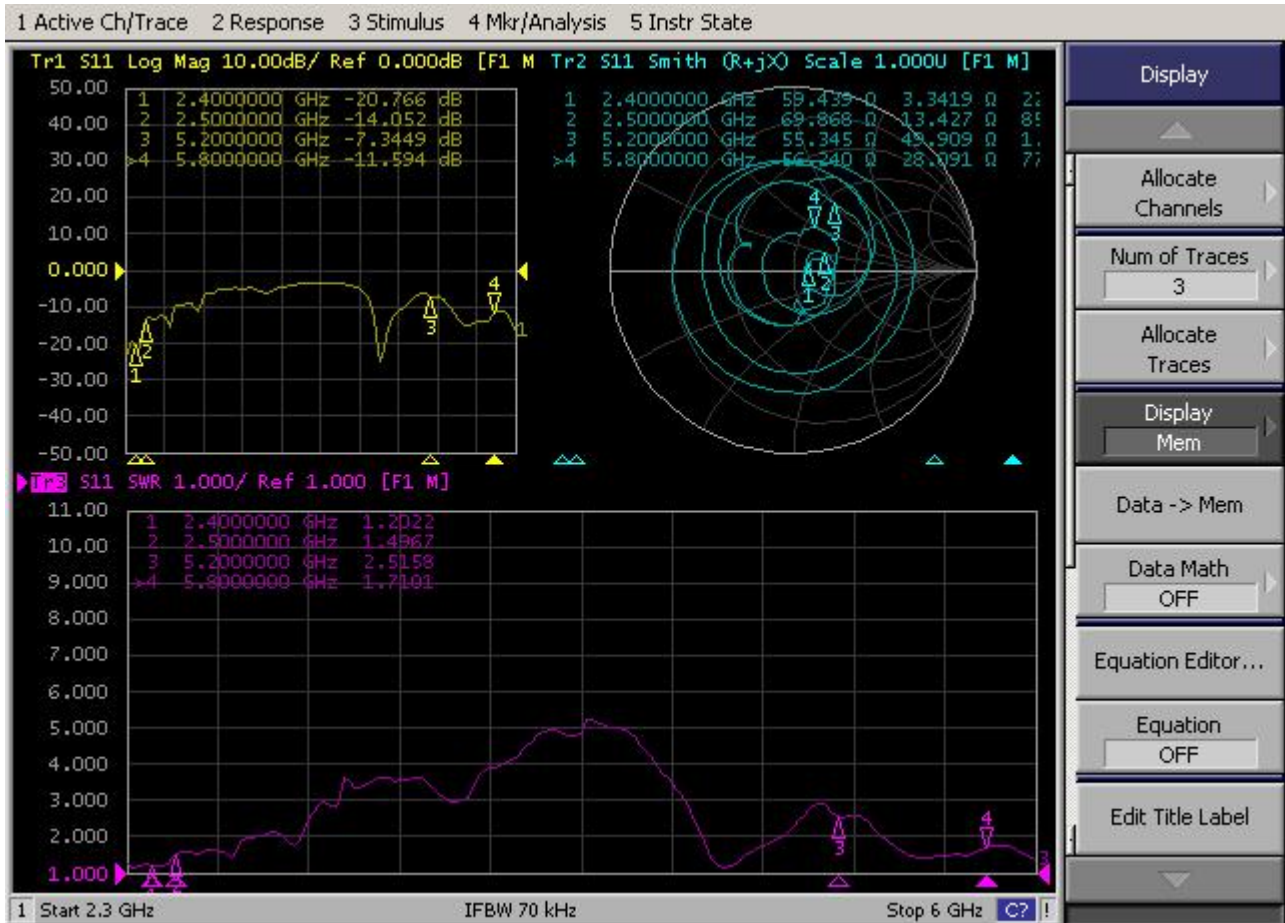
1、Product picture



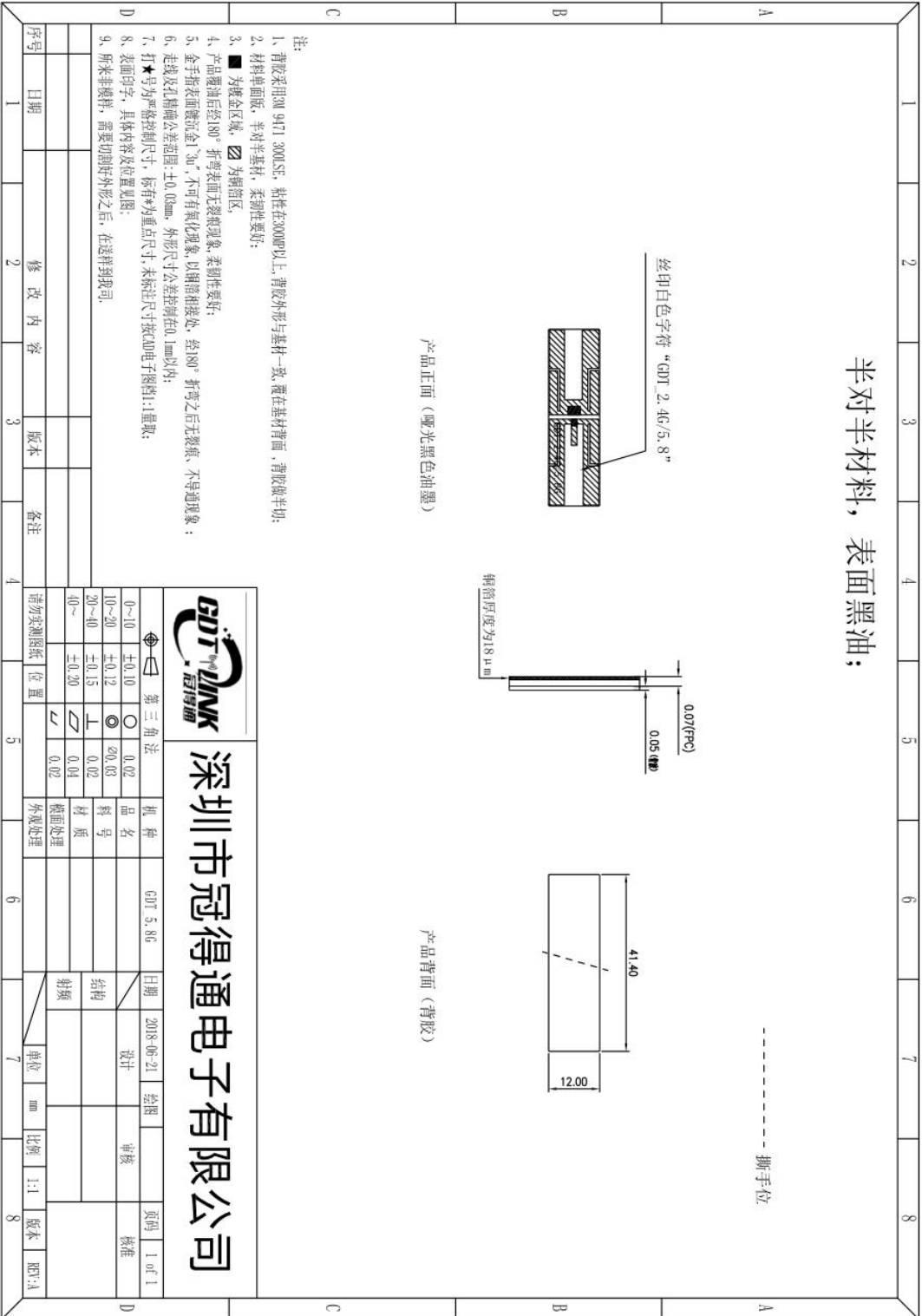
2、Product parameter

Product te t parameter			
产品名称(Name)	FPC	产品型号(Model Type)	GDT--2PWIFI-120
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frenquency Range)	2400-2500MHz 5200-5800MHZ	极化方式 (Polarization)	ertica
输入阻抗(Impedance)	50 Ω	辐射方向 adiatio	om idirectio a
驻波比 (VSWR)	≤2	功率容量(Power)	50W
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	41.40*12±1mm	天线颜色(Chassis Color)	re
连接器型号 (Connector)	IPEX	引线长度(Cable Length)	150MM
天线材料 (Chassis Material)	FPC		
工作温度 (Working Temperature)	-40℃--+85℃	存放温度 (Limit Temperature)	-40℃--+85℃

3、 S11 (VSWR 、 Return loss 、 Smith)



4、 estructura dra i



- 注:
1. 背胶采用3M 9471 3001SE, 粘性在3000MP以上, 背胶外形与基材一致, 覆在基材背面, 背胶做半切;
 2. 材料单面版, 半对半基材, 柔性要好;
 3. ■ 为镂空区域, □ 为铜箔区;
 4. 产品覆油后经180°折弯表面无裂痕现象, 柔性要好;
 5. 金手指表面镀沉金1~3μ, 不可有氧化现象, 以铜箔相接处, 经180°折弯之后无裂痕, 不导通现象;
 6. 走线及孔精确公差范围: ±0.03mm, 外形尺寸公差控制在0.1mm以内;
 7. 打★号为严格控制尺寸, 标有★为重点尺寸, 未标注尺寸按A3电子图档1:1量取;
 8. 表面印字, 具体位置及位置见图;
 9. 所来非模样, 需要切割外形之后, 在这样到我司。

序号	日期	修改内容	版本	备注
1				
2				
3				
4				

		深圳市冠得通电子有限公司							
第三角法	机种	GOT 5.8G	日期	2018-06-21	绘图	审核	页码	1 of 1	
0~10	±0.10	0.02	品名		设计	审核	核准		
10~20	±0.12	0.03	料号						
20~40	±0.15	0.02	材质						
40~	±0.20	0.04	表面处理						
		0.02	外观处理						
请勿实测图纸		位置	单位		mm	比例	1:1	版本	REV:A

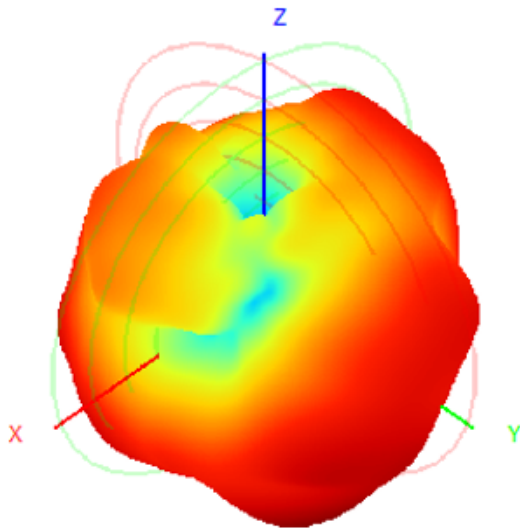
5、 ai a d e icie c

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.83	-2.74	-2.66	-2.56	-2.41	-2.13	-1.89	-1.73	-1.69	-1.72	-1.63
Gain (dBi)	2.95	2.96	2.71	2.48	2.30	3.03	3.53	3.97	3.76	3.25	3.31
Efficiency (%)	52.15	53.20	54.22	55.51	57.35	61.20	64.72	67.17	67.73	67.25	68.71
Directivity (dB)	5.78	5.70	5.37	5.03	4.72	5.16	5.42	5.70	5.45	4.98	4.94
Peak Gain Position (Theta)	123.00	106.00	107.00	126.00	109.00	110.00	110.00	108.00	108.00	99.00	99.00
Peak Gain Position (Phi)	60.00	255.00	254.00	62.00	253.00	253.00	255.00	256.00	254.00	75.00	76.00
Efficiency ThetaPol (%)	39.00	40.13	41.29	42.74	45.00	48.82	52.24	54.60	55.45	55.59	57.16
Efficiency PhiPol (%)	13.15	13.08	12.93	12.78	12.35	12.38	12.48	12.57	12.28	11.66	11.55
Upper Hem. Efficiency (%)	15.98	16.57	17.68	18.20	19.28	21.10	22.73	24.65	26.16	26.22	27.29
Lower Hem. Efficiency (%)	36.17	36.63	36.54	37.32	38.08	40.10	41.99	42.53	41.57	41.04	41.42

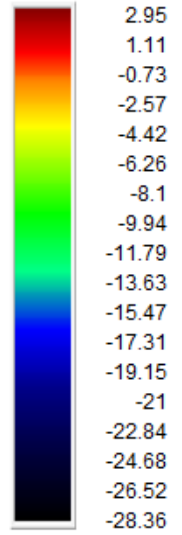
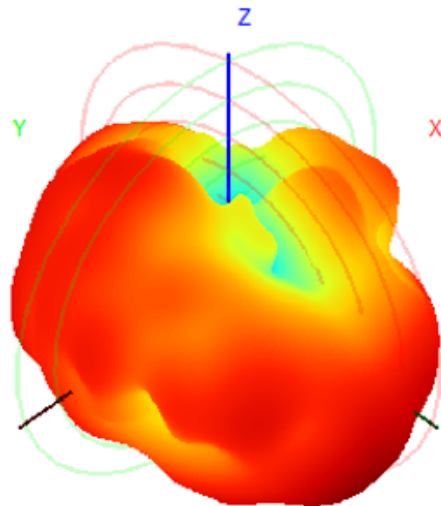
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-3.13	-3.25	-2.79	-2.60	-2.85	-2.77	-2.45	-2.32	-2.41	-2.18	-2.08	-2.18	-2.03	-1.83	-1.93
Gain (dBi)	4.69	4.05	4.96	4.39	4.24	3.89	4.65	5.21	5.01	5.27	4.48	5.60	5.86	5.68	5.67
Efficiency (%)	48.61	47.37	52.62	54.90	51.92	52.89	56.91	58.62	57.46	60.54	61.96	60.53	62.71	65.66	64.10
Directivity (dB)	7.82	7.30	7.75	7.00	7.09	6.65	7.09	7.53	7.41	7.45	6.56	7.78	7.89	7.50	7.60
Peak Gain Position (Theta)	85.00	84.00	85.00	96.00	97.00	96.00	97.00	75.00	75.00	76.00	84.00	83.00	86.00	86.00	85.00
Peak Gain Position (Phi)	131.00	132.00	252.00	58.00	323.00	322.00	322.00	104.00	104.00	105.00	277.00	106.00	107.00	106.00	107.00
Efficiency ThetaPol (%)	41.45	41.04	45.35	48.70	45.96	46.61	50.32	52.05	51.27	54.11	54.80	53.36	54.85	57.40	56.16
Efficiency PhiPol (%)	7.15	6.33	7.27	6.19	5.96	6.28	6.59	6.57	6.19	6.43	7.16	7.17	7.86	8.26	7.95
Upper Hem. Efficiency (%)	27.72	25.95	28.00	28.13	26.70	26.53	28.26	29.64	29.23	30.42	31.38	30.10	31.28	33.25	33.05
Lower Hem. Efficiency (%)	20.89	21.41	24.62	26.77	25.22	26.36	28.64	28.98	28.23	30.12	30.58	30.43	31.43	32.41	31.05

6、 3D

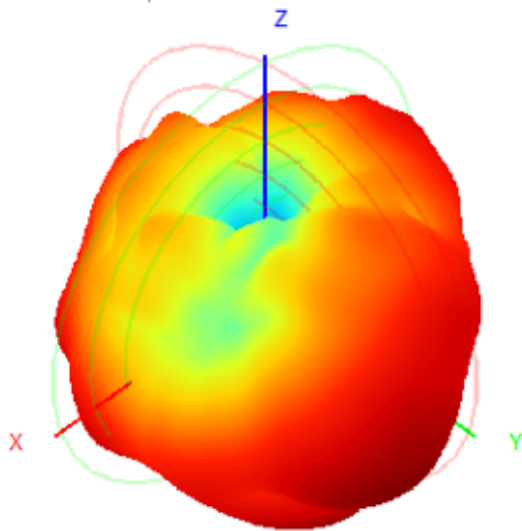
2400.0MHz H+V, Eff: 52.1%



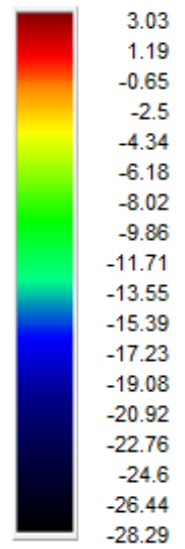
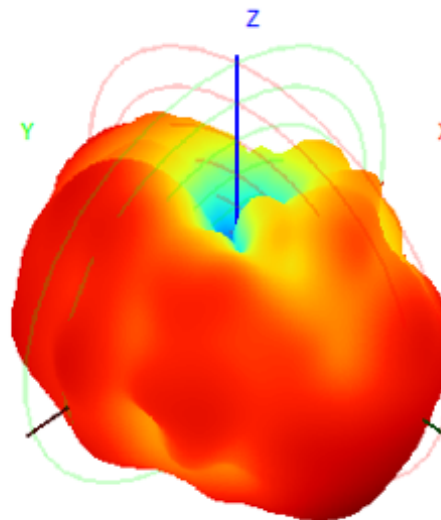
Back View



2450.0MHz H+V, Eff: 61.2%

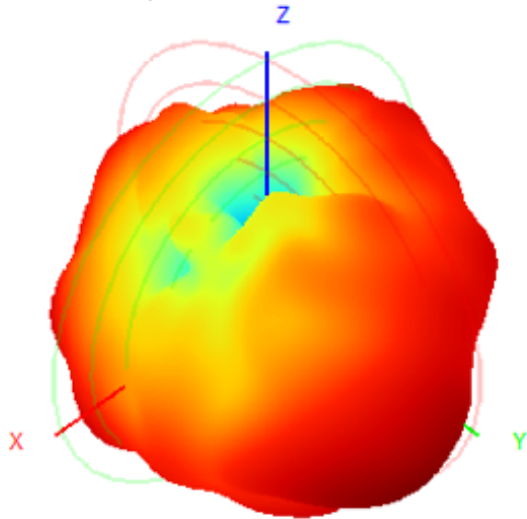


Back View

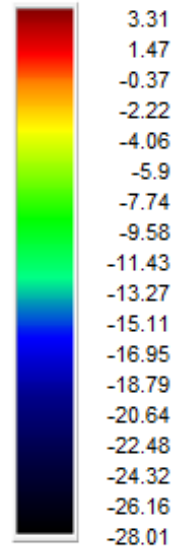
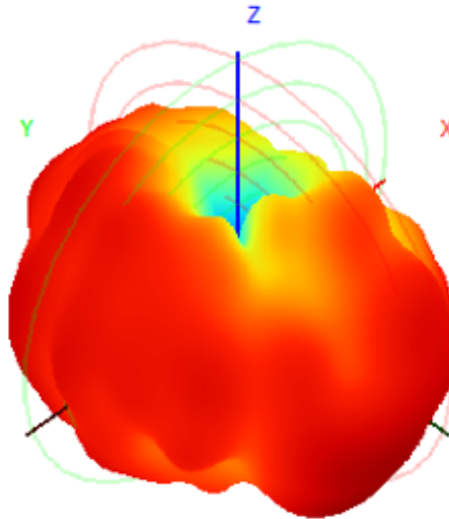


6、 3D

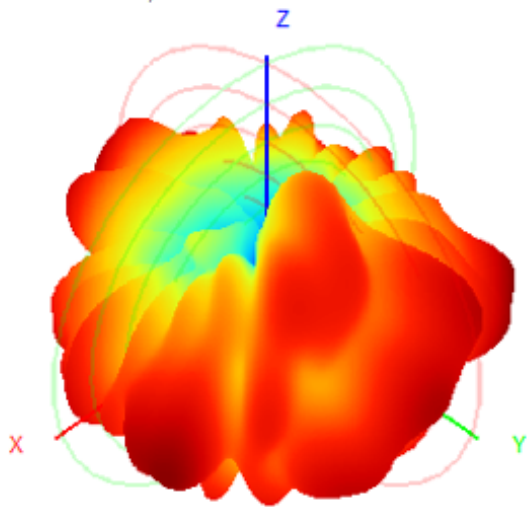
2500.0MHz H+V, Eff: 68.7%



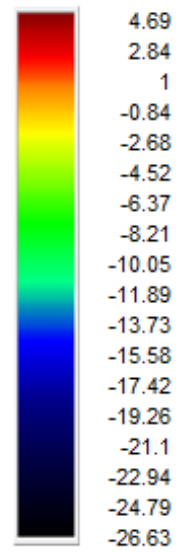
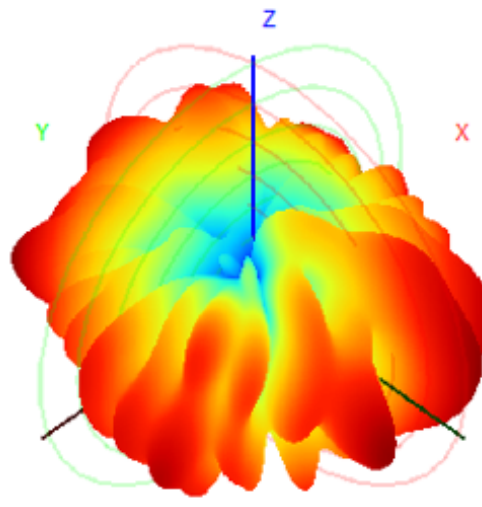
Back View



5150.0MHz H+V, Eff: 48.6%

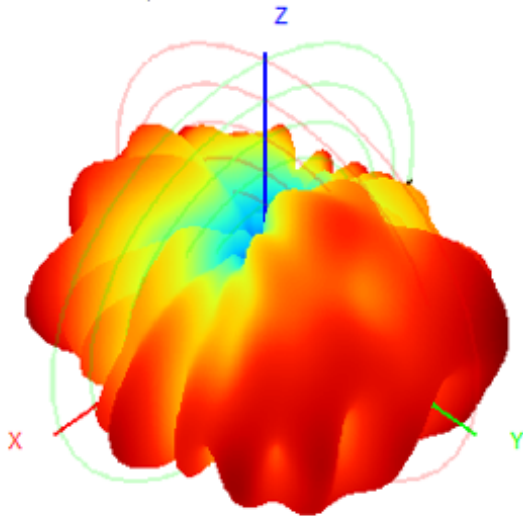


Back View

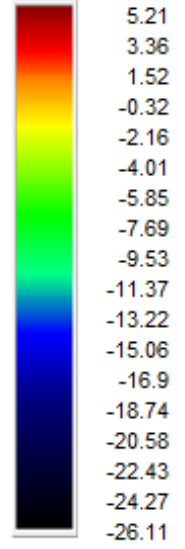
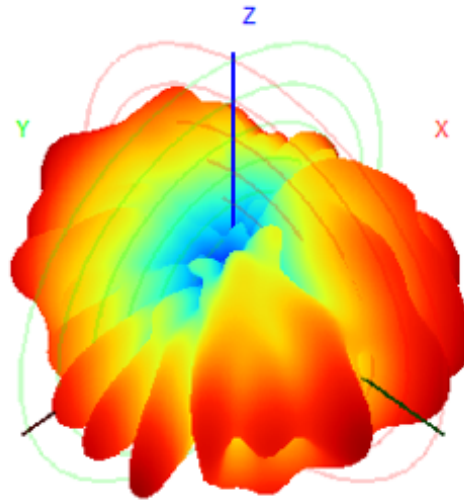


6、 3D

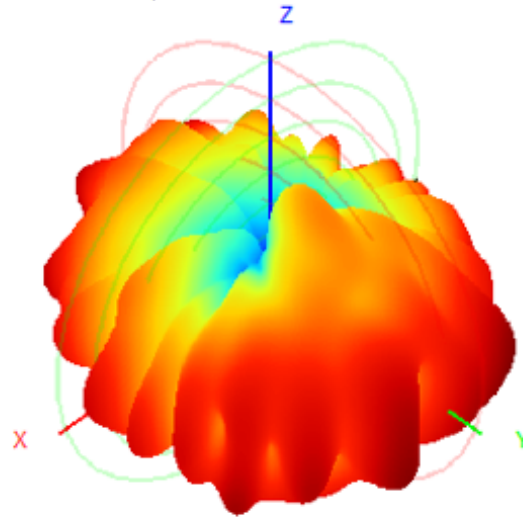
5500.0MHz H+V, Eff: 58.6%



Back View



5850.0MHz H+V, Eff: 64.1%



Back View

