

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

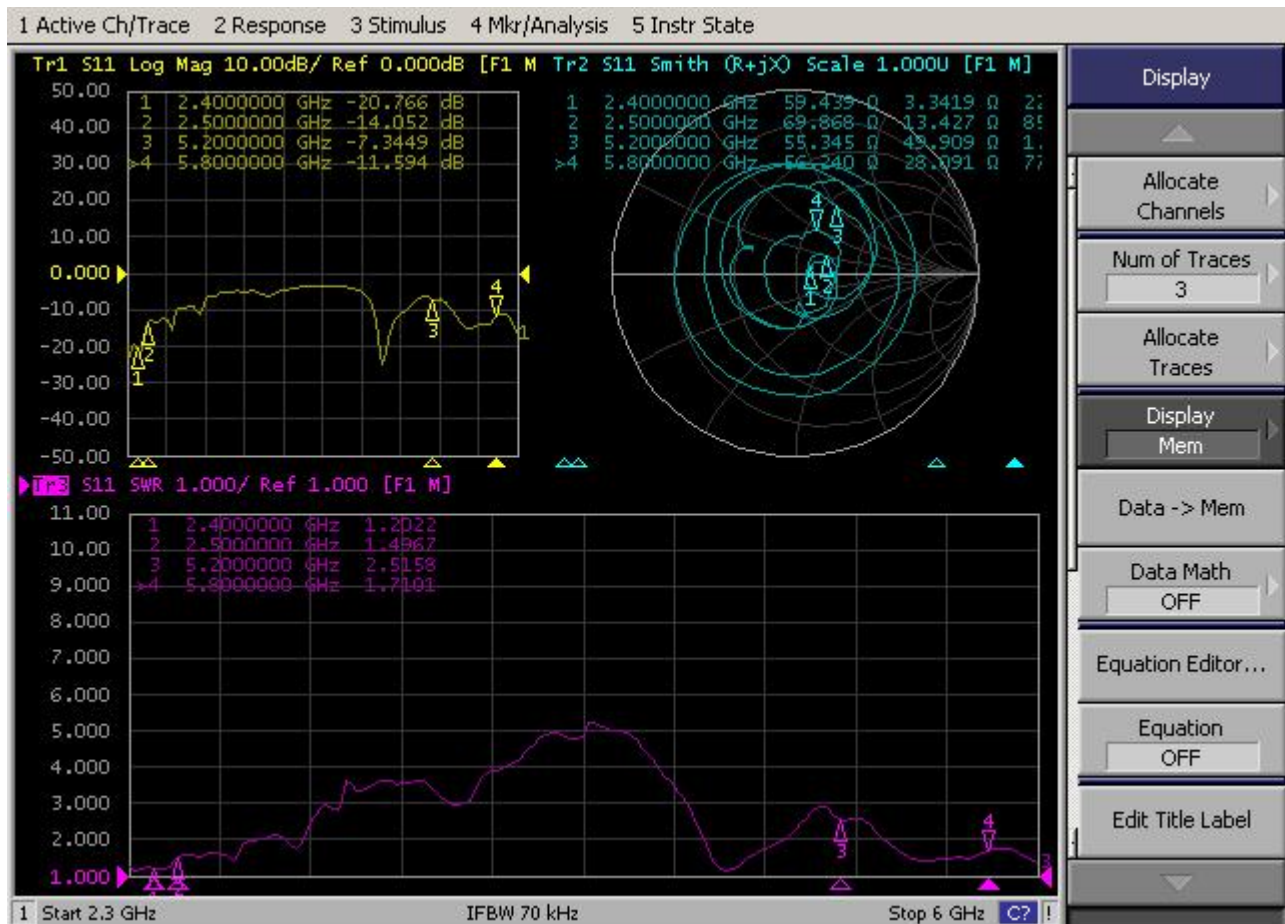
1、Product picture



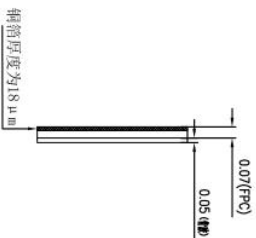
2、Product parameter

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℃

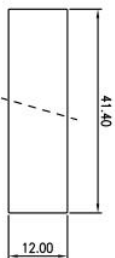
3、 S11 (VSWR 、 Return loss 、 Smith)



半对半材料，表面黑油；



-----撕手位。



产品正面 (哑光黑色油墨)

产品背面(背胶)

1. 粘接采用0M 3-11 300.0SE, 粘性在3000度以上, 清除外形与基片一层, 覆在基片背面, 清除胶半块;
2. 材料单面皮, 手对压成型, 柔韧性要好;
3. 为被金区域, 为铜箔区;
4. 产品覆油后经90°折弯表面无裂纹现象, 柔韧性要好;
5. 金手指表面镀金1~5μ不可有氧化现象, 以铜箔被蚀, 经180°折弯之后无裂纹, 不导电现象;
6. 是导线及孔间距公差范围: $\pm 0.02\text{mm}$, 外形尺寸公差控制在0.1mm以内;
7. 打★号为规格内尺寸, 标有★为重点尺寸, 未标注尺寸按电子图档1:1量取;
8. 表面图样: 具体尺寸及位置见图;

附本非模件, 需要切好外形之后, 在送到我司。

2、材料半圆板，于对干密封，来源任意； 3、 ☒ 为镀金区域， ☒ 为铜箔区； 4、产品喷油后经180°折弯表面无裂纹现象，柔韧性良好； 5、金子半表面镀金至 $\geq 3\mu$ ，不可有氧化现象，以附霜相接触，经180°折弯之巨无裂痕、不导通现象； 6、走线及孔精确定公差范围 $\pm 0.03\text{mm}$ ，外形尺寸公差控制 $\pm 0.1\text{mm}$ 以内； 7、打★号为严格控制尺寸，标注★尺寸按加电子图标注；重取； 8、表面印字，具体内容及位置见图； 9、所来半圆板，需要切割好外形之后，在这样到我司。									
序号	日期	修改内容	版本	备注					
1		2	3	4					
									
					第三角法				
					机 件 图				
					GOT 5. 86				
					日期 2018-06-21 绘图 审核 核准				
					结构 射频				
					单位 mm 比例 1:1 版本 1 of 1				
					外观处理				
					6				
					7				
					8				

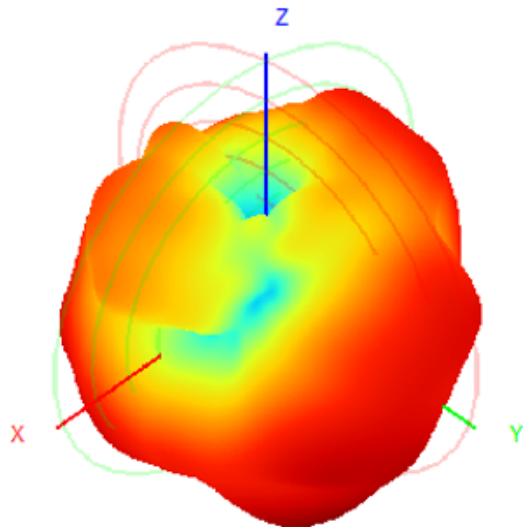
5、ai a d e icie c

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

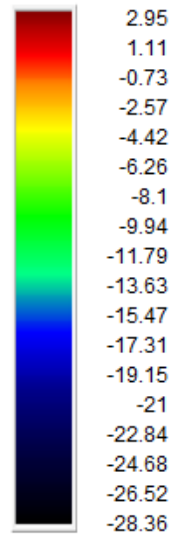
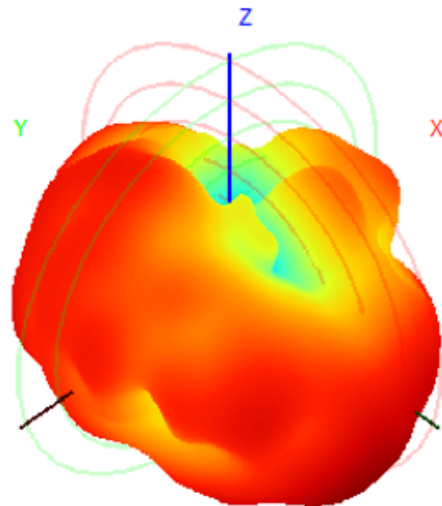
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-3.13	-3.25	-2.79	-2.60	-2.85	-2.77	-2.45	-2.32	-2.41	-2.18	-2.08	-2.18	-2.03	-1.83	-1.93
Gain (dBi)	4.69	4.05	4.96	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

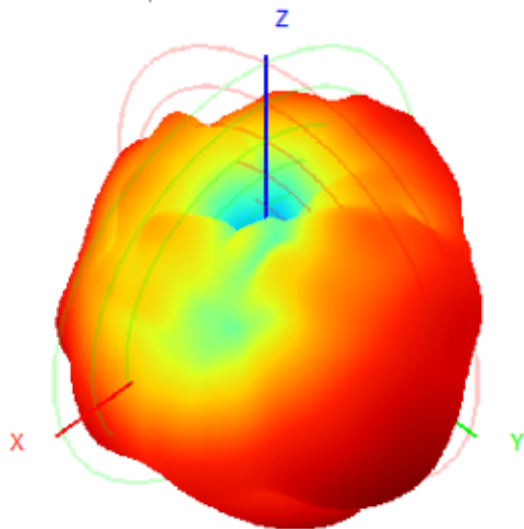
2400.0MHz H+V, Eff: 52.1%



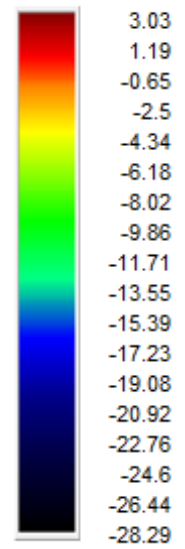
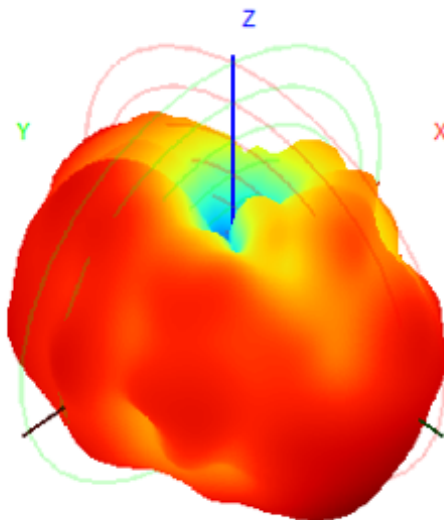
Back View



2450.0MHz H+V, Eff: 61.2%

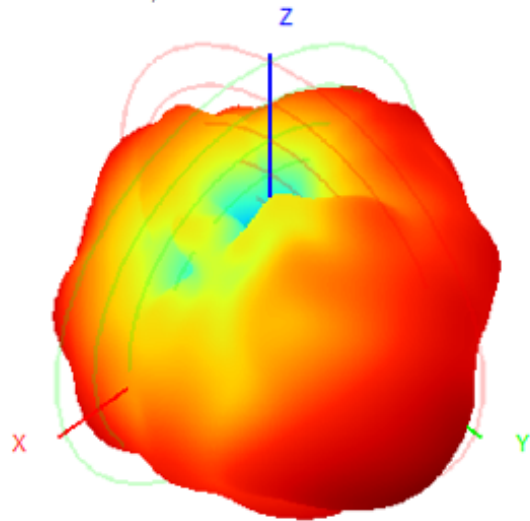


Back View

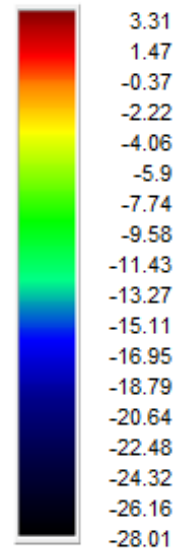
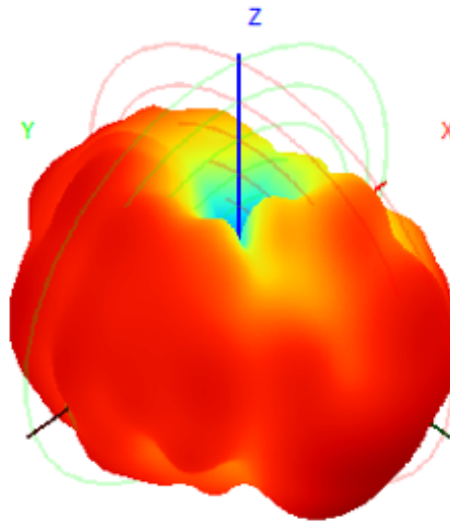


6、 3D

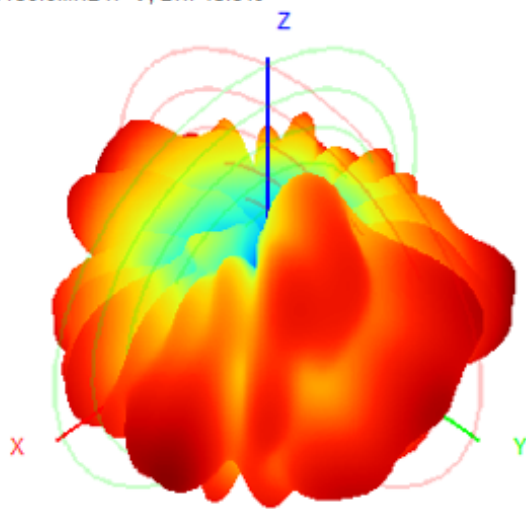
2500.0MHz H+V, Eff: 68.7%



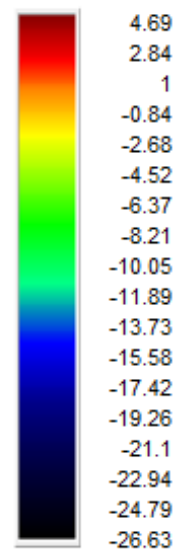
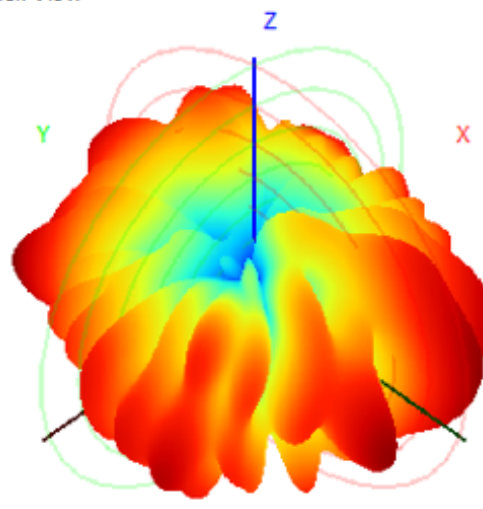
Back View



5150.0MHz H+V, Eff: 48.6%

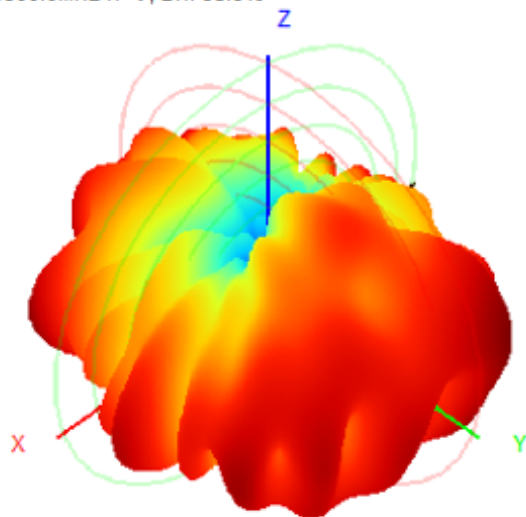


Back View

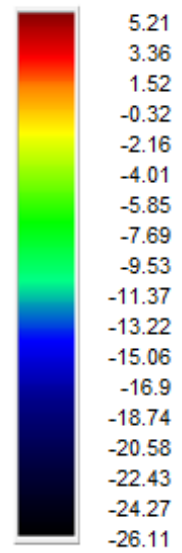
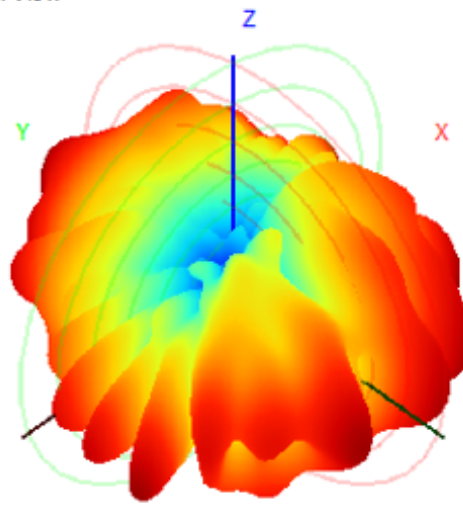


6、 3D

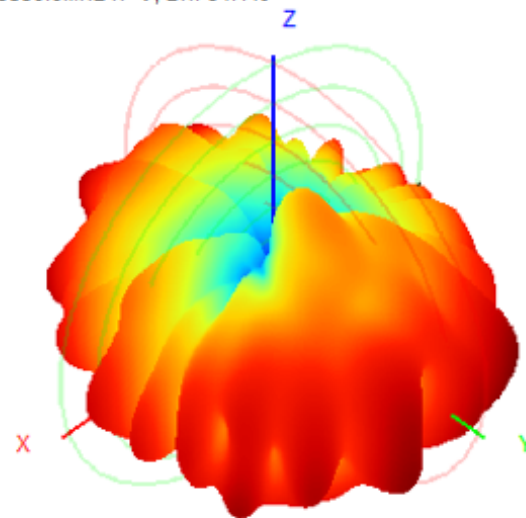
5500.0MHz H+V, Eff: 58.6%



Back View



5850.0MHz H+V, Eff: 64.1%



Back View

