

深圳有力科技有限公司

ShenZhen Powerful Technology CO., Limited

規格承認書

SPECIFICATION FOR APPROVAL

客 户

CUSTOMER:

客 户 料 号

CUSTOMER NO:

品 名

PART NAME:

供 方 料 号

SUPPLIER NO:

得实

108-双频 WIFI 胶棒天线/L=108mm 黑色外壳/SMA 公头母针

YL1389-W-2.4/5G-WIFI-RP

日期 Date: 2025.02.06

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
赵旋旋	陈娜	张洋

实验室测试环境及设备



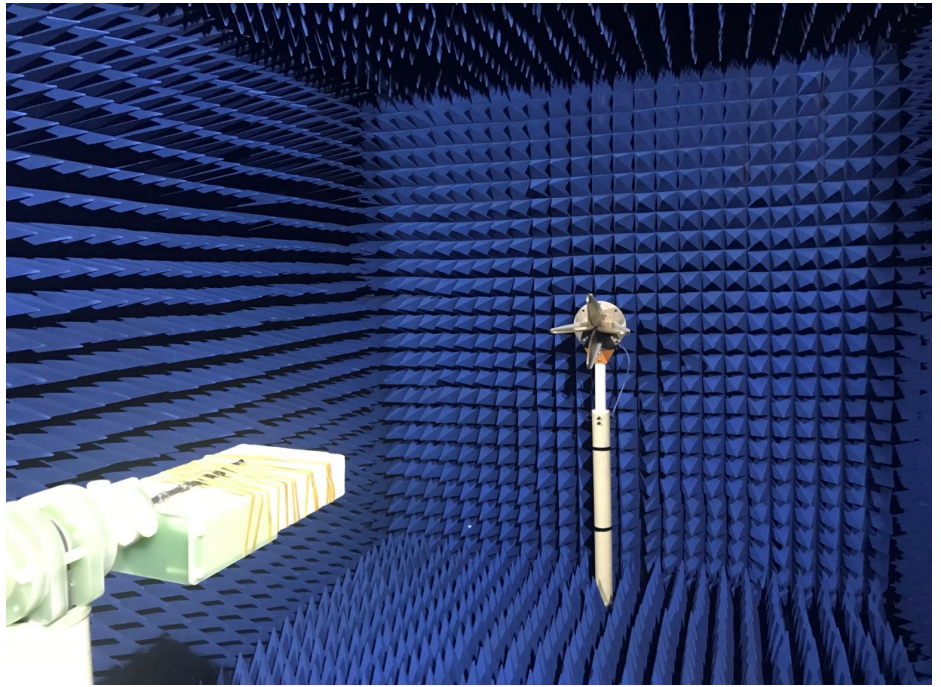
CMW500



E5071B



Aglient 8960



测试项目 (Test Project) : S11、S12 、VSWR 、Efficiency、Gain 3D Radiation Pattern 、TRP、TIS

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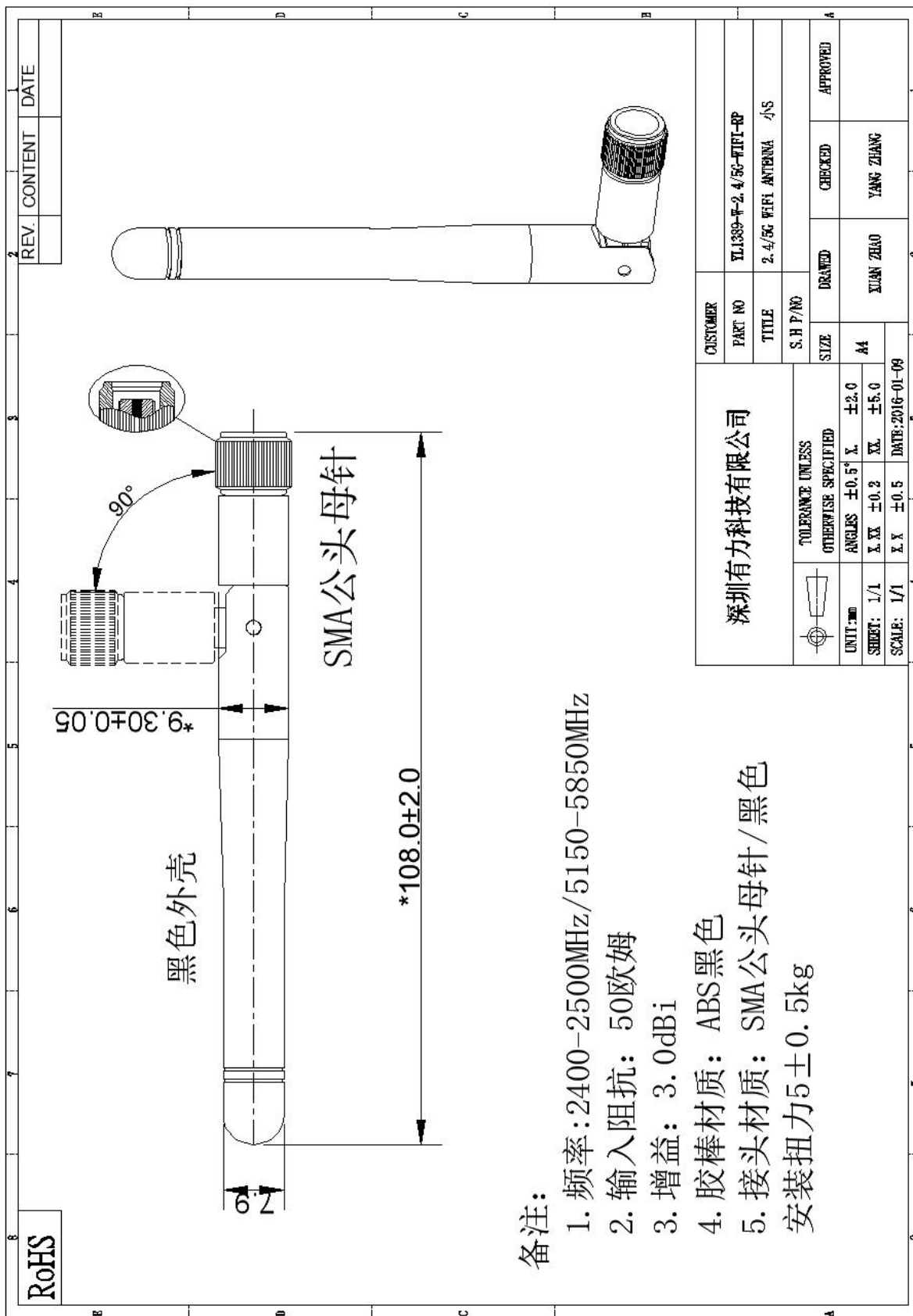
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1. 技术指标（Technical Index）

技术要求 Technical Title	技术指标 Technical Index
频段信息 Frequency band information	2400MHz-2500 MHz/5100-5800MHz
天线增益/Antenna gain	2.4: 2.67dBi 5G:3.75dBi
输入阻抗 Input impedance	50 Ω
辐射方向 Radiation direction	全向 Omnidirectiona
工作温 Operating temperature	-20° - +80°
连接方式 Continuous mode	SMA 公头母针
天线颜色 Color /规格 Specifications	黑色外壳/L=108MM

2. 图纸 (Drawings)



3. 天线测试数据 (Antenna test data)

3-1 无源驻波图.

SWR



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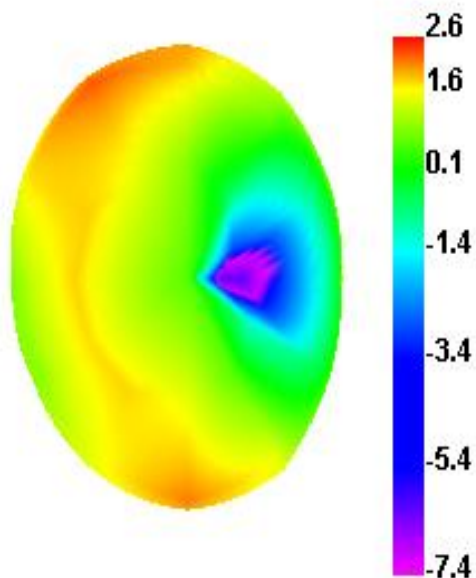
3-2 天线增益/效率.

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	79.44	2.56
2405	75.32	2.43
2410	71.95	2.23
2415	71.93	2.34
2420	72.48	2.31
2425	68.73	2.08
2430	67.84	1.99
2435	72.93	2.27
2440	73.91	2.32
2445	73.11	2.27
2450	74.37	2.33
2455	73.49	2.28
2460	71.95	2.25
2465	67.42	2.13
2470	63.31	1.87
2475	62.92	1.96
2480	61.96	1.99
2485	62.84	2.19
2490	62.89	2.16
2495	64.82	2.31
2500	70.41	2.67

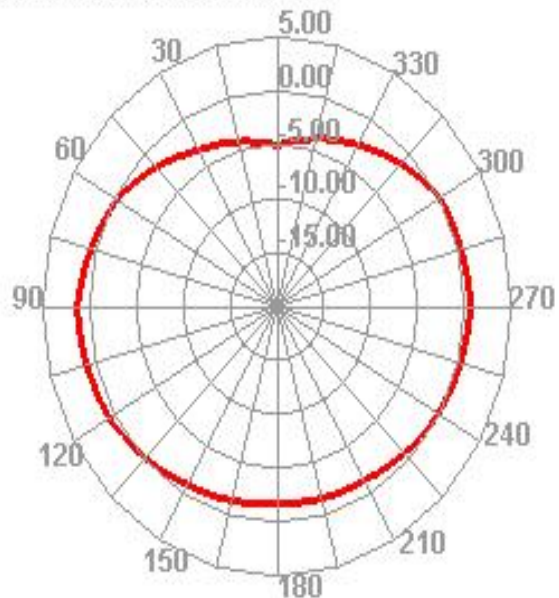
Passive Test For 5G								
Freq	Effi	Gain	Freq	Effi	Gain	Freq	Effi	Gain
(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)
5100	69.29	3.08	5360	73.58	3.45	5620	49.81	1.53
5110	73.64	3.44	5370	68.31	3.14	5630	53.44	1.87
5120	78.68	3.65	5380	69.3	3.27	5640	59.73	2.39
5130	66.65	2.9	5390	68.07	3.14	5650	60	2.41
5140	66.25	2.96	5400	72.29	3.28	5660	58.45	2.49
5150	60.37	2.62	5410	73.83	3.24	5670	58.06	2.35
5160	61.46	2.79	5420	67.79	2.74	5680	58.12	2.28
5170	61.91	2.94	5430	59.77	2.14	5690	65.83	2.52
5180	63.28	3.11	5440	58.17	2.14	5700	67.17	2.31
5190	57.1	2.66	5450	56.9	2.11	5710	63.23	1.97
5200	60.12	2.94	5460	61.79	2.61	5720	61.24	1.79
5210	60.8	2.95	5470	60.49	2.5	5730	59.13	1.89
5220	66.98	3.37	5480	57.95	2.34	5740	60.12	2.11
5230	67.49	3.37	5490	53.89	2.12	5750	64.8	2.58
5240	68.33	3.33	5500	52.81	1.89	5760	66.8	2.67
5250	59.51	2.64	5510	51.49	1.79	5770	65.71	2.5
5260	57.68	2.53	5520	54.25	1.96	5780	61.55	1.93
5270	59.53	2.78	5530	52.39	1.79	5790	57.76	1.48
5280	65.98	3.25	5540	49.92	1.72	5800	58.77	1.41
5290	69.71	3.52	5550	49.01	1.72	5810	61.51	1.63
5300	75.24	3.75	5560	49.76	1.81	5820	58.52	1.53
5310	68.89	3.31	5570	51.31	2.01	5830	56	1.48
5320	69.48	3.32	5580	57.38	2.52	5840	55.38	1.59
5330	65.97	2.97	5590	56.04	2.3	5850	55.74	1.53
5340	69.61	3.17	5600	51.52	1.82			
5350	74.92	3.44	5610	49.81	1.57			

3-3 苹果图

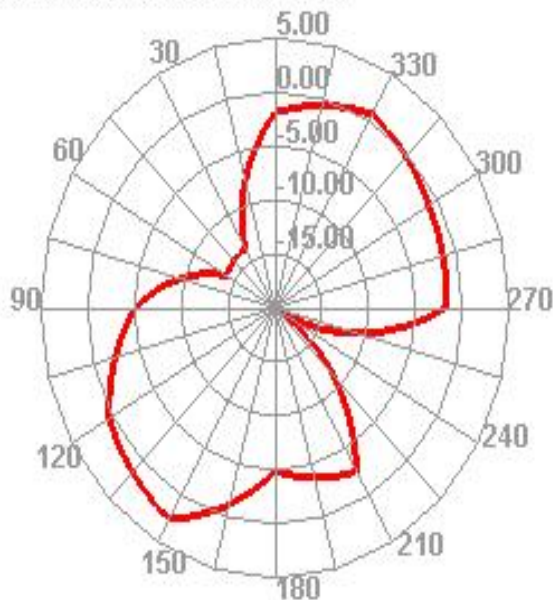
2400.000MHz



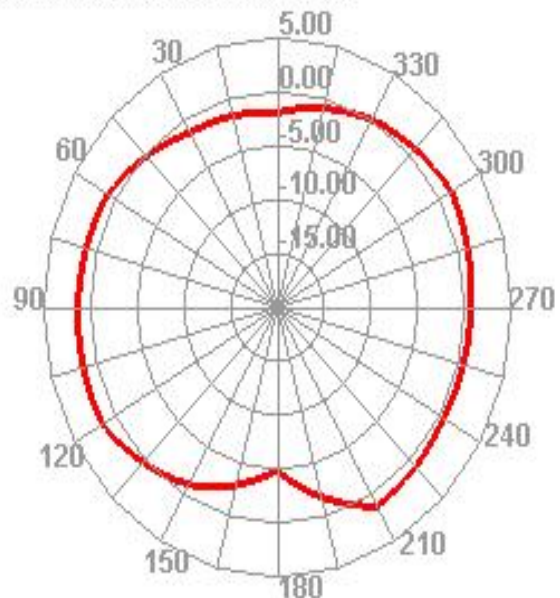
2400.000MHz H



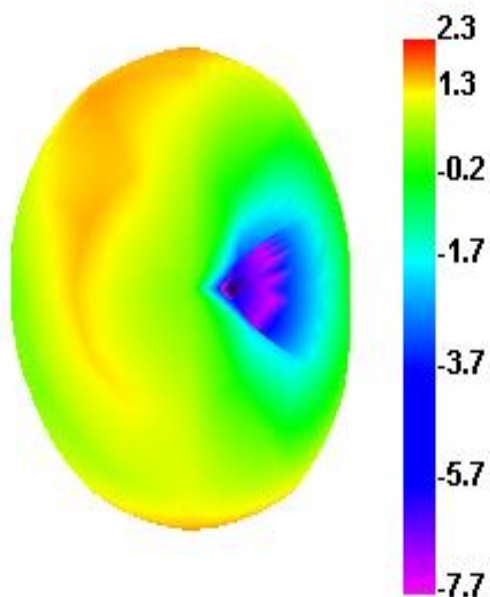
2400.000MHz E1



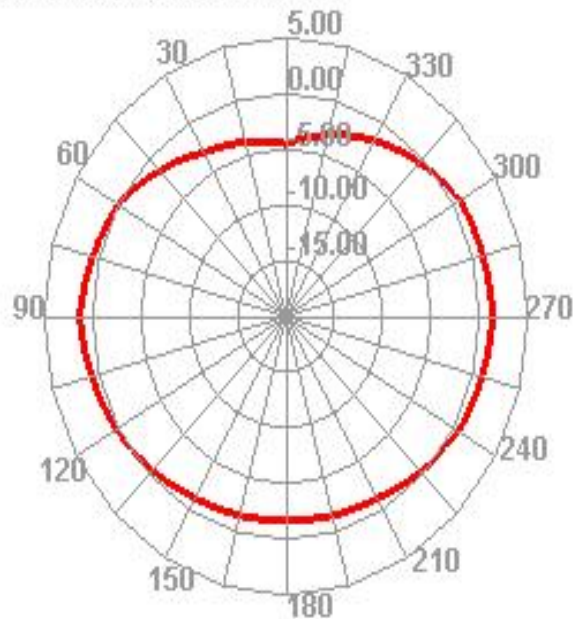
2400.000MHz E2



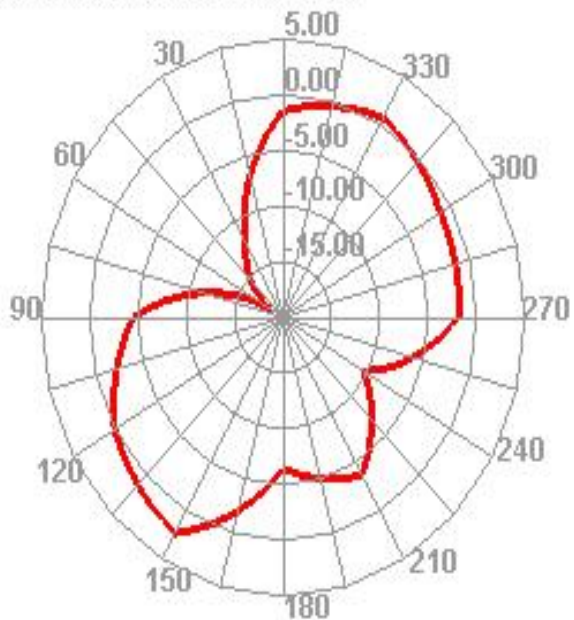
2450.000MHz



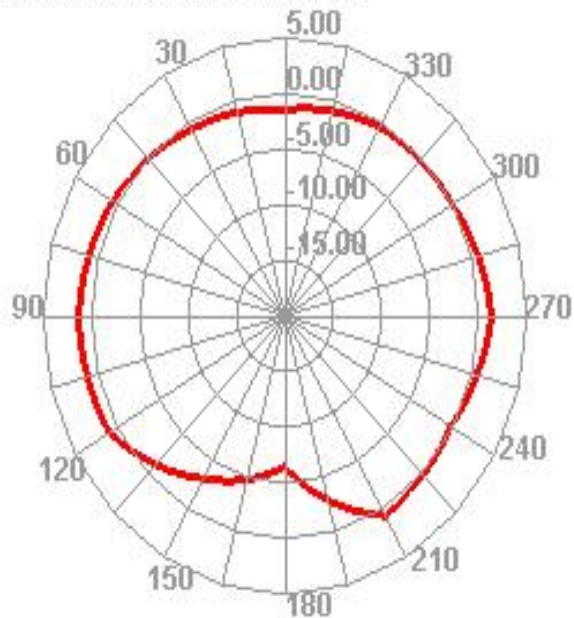
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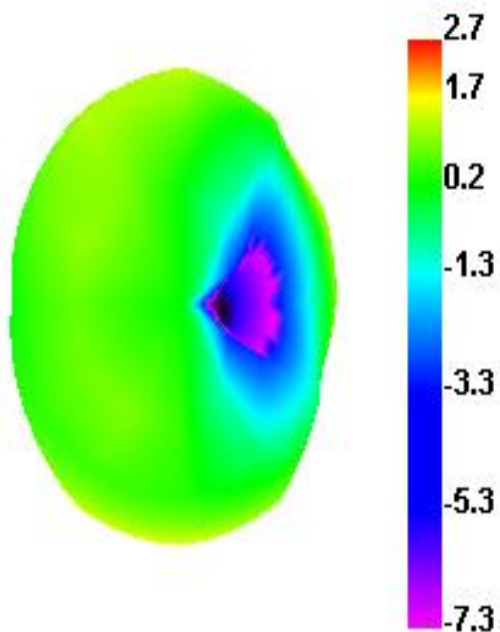
2450.000MHz E1



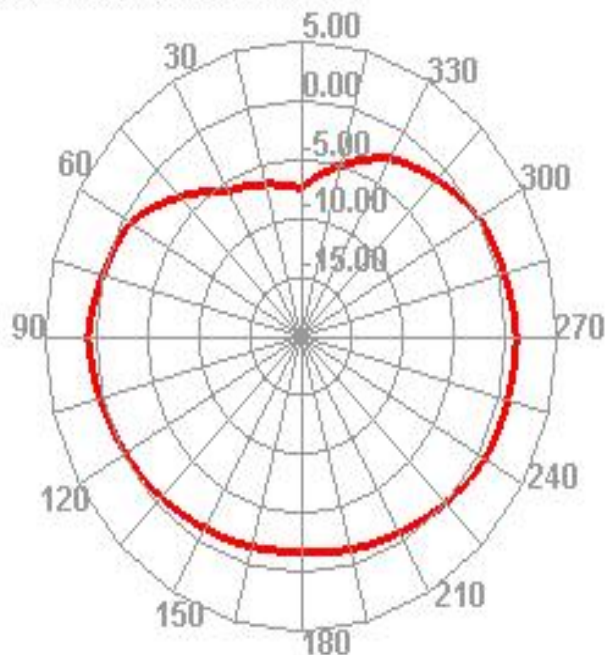
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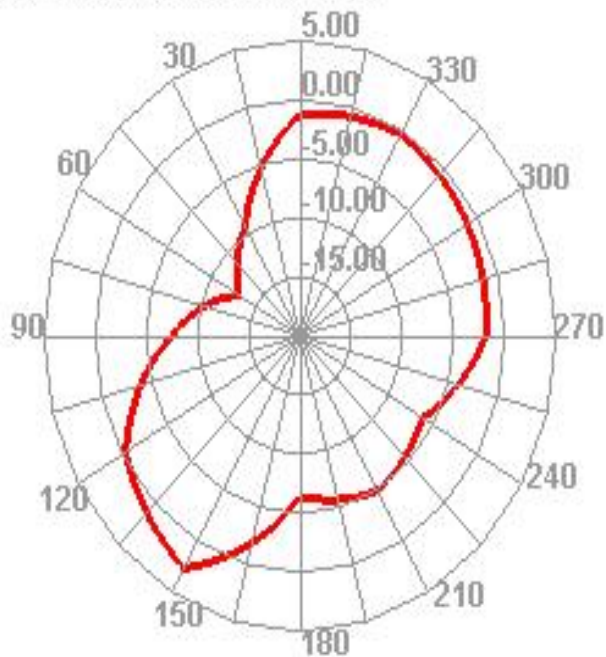
2500.000MHz



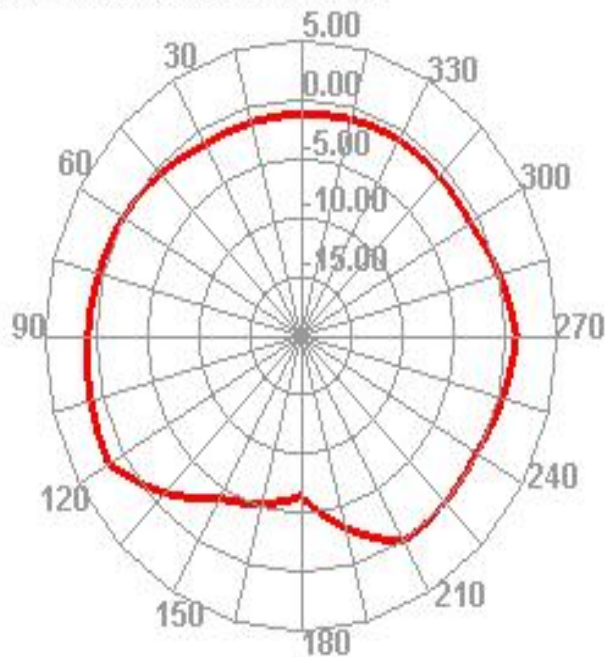
2500.000MHz H



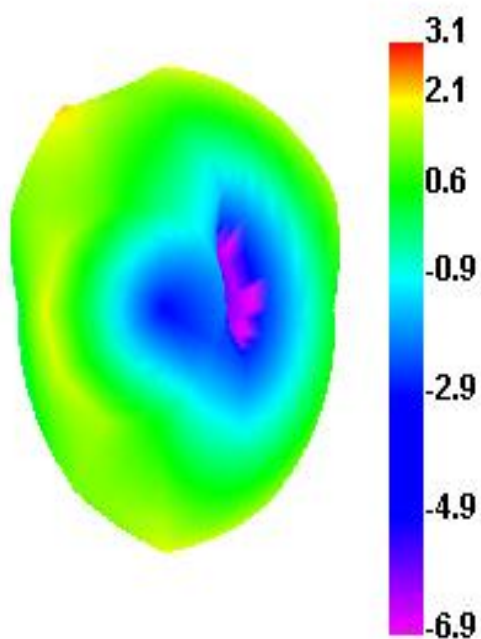
2500.000MHz E1



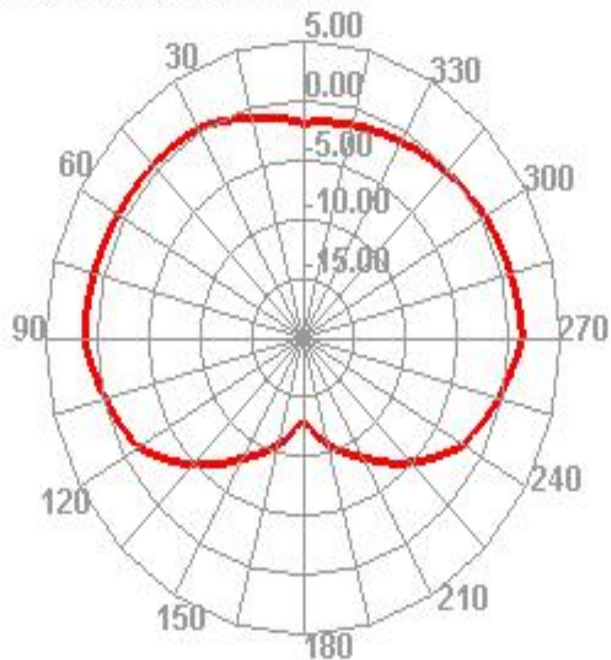
2500.000MHz E2



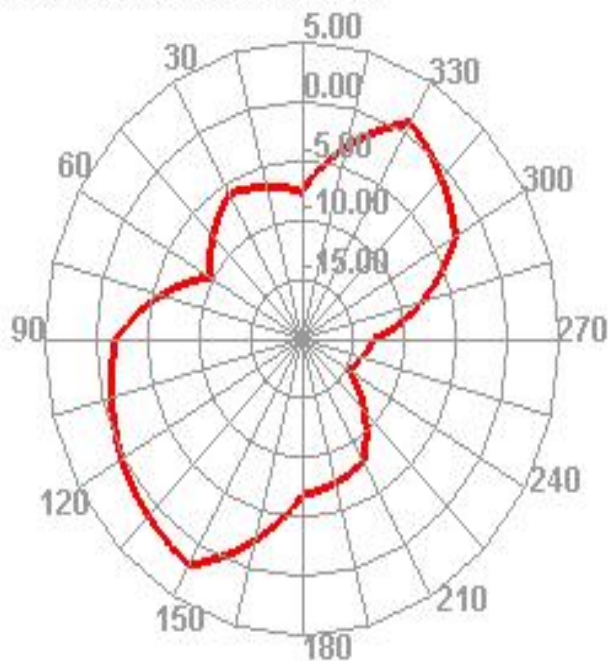
5100.000MHz



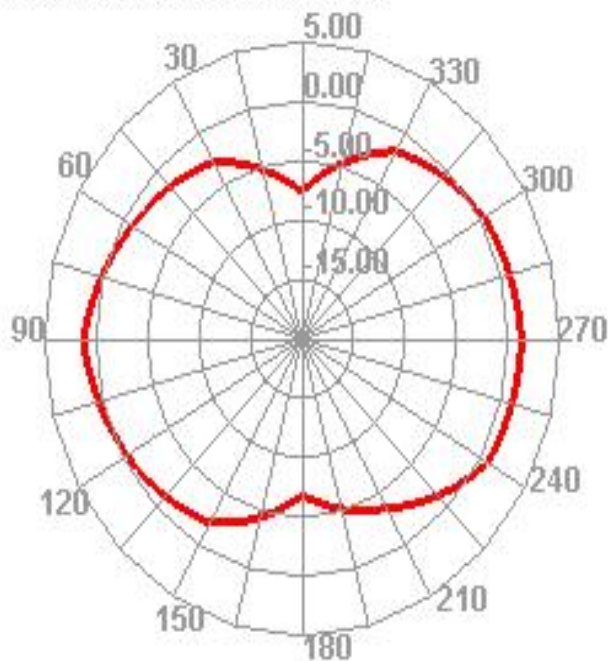
5100.000MHz H



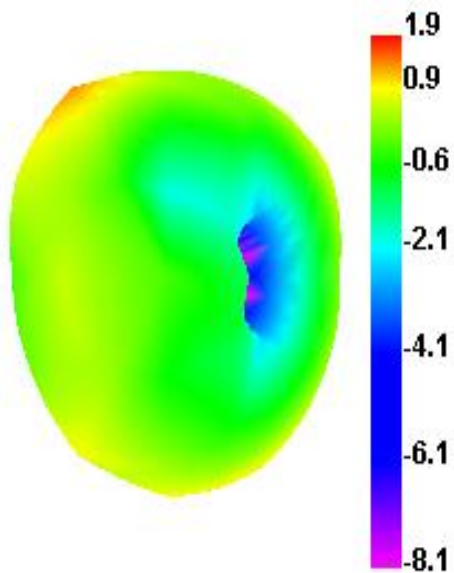
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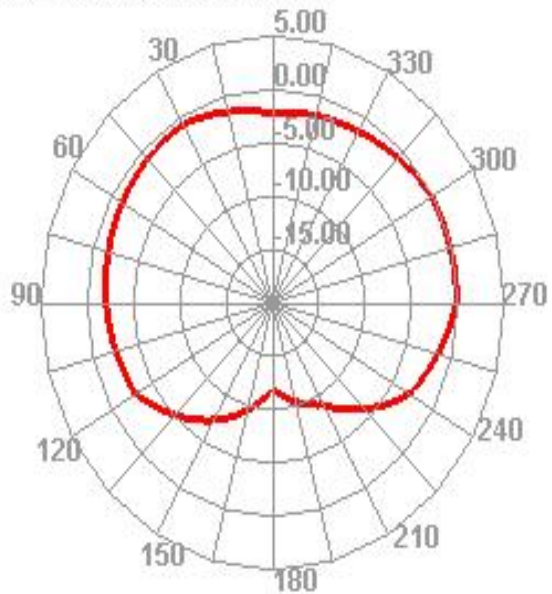
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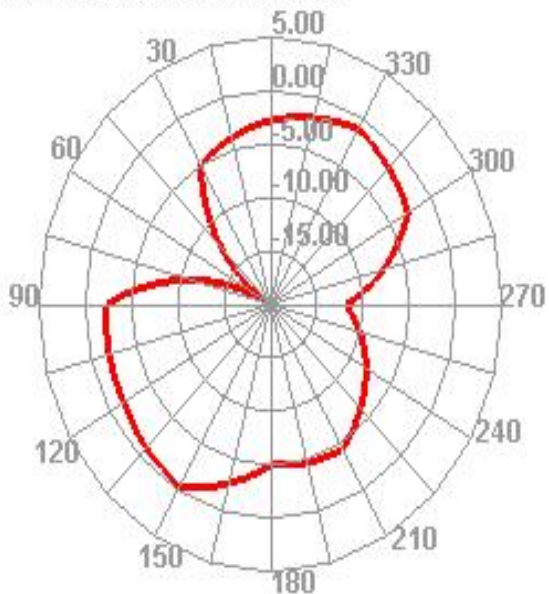
5500.000MHz



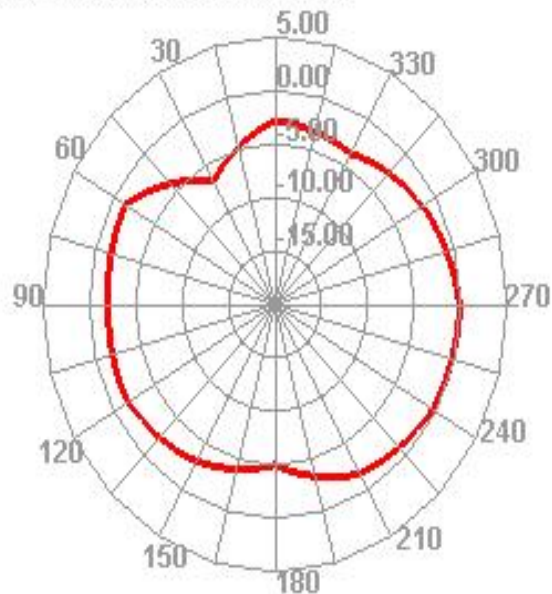
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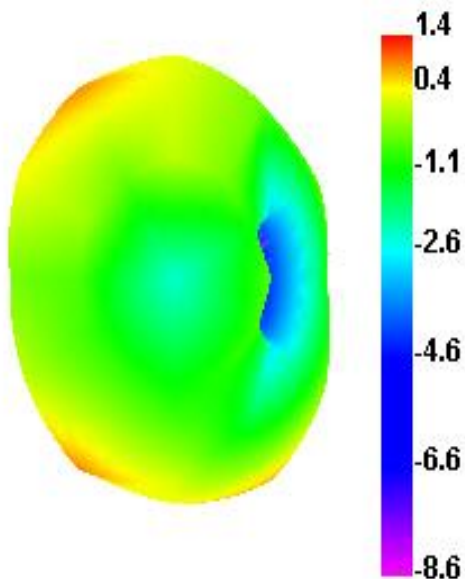
5500.000MHz E1



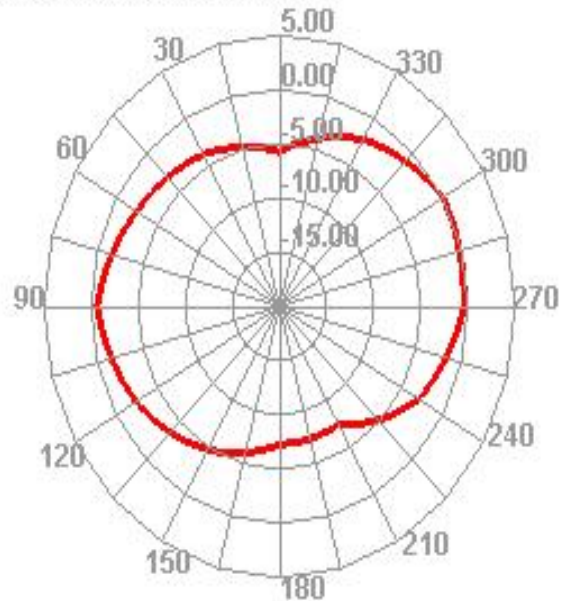
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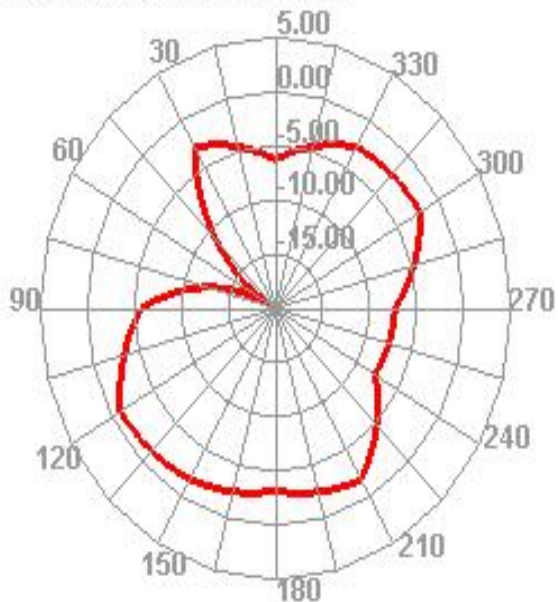
5800.000MHz



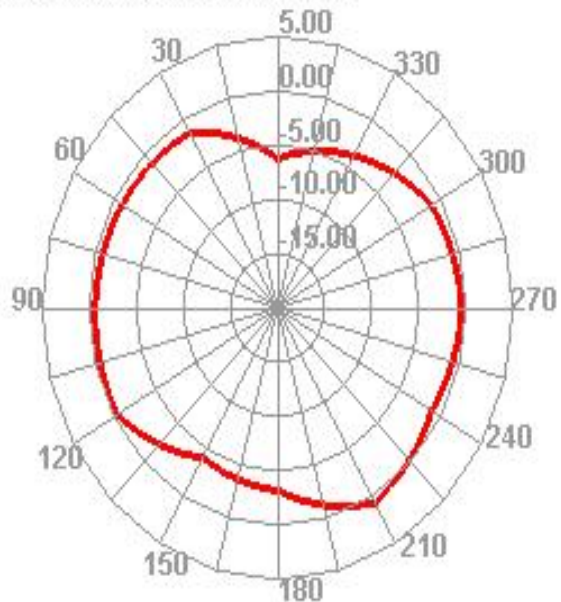
5800.000MHz H



5800.000MHz E1



5800.000MHz E2



ROHS

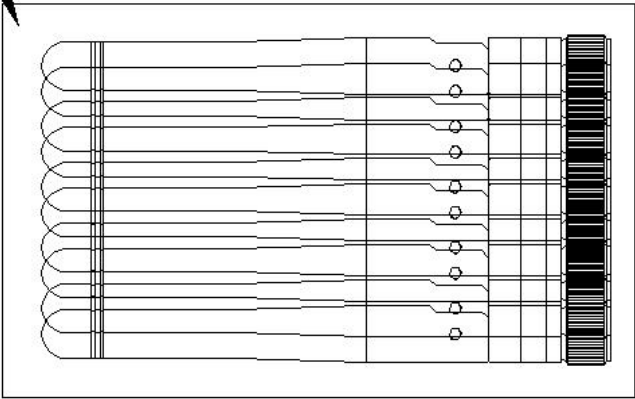
包装说明

1. 单PCS



2. 50PCS/PE袋

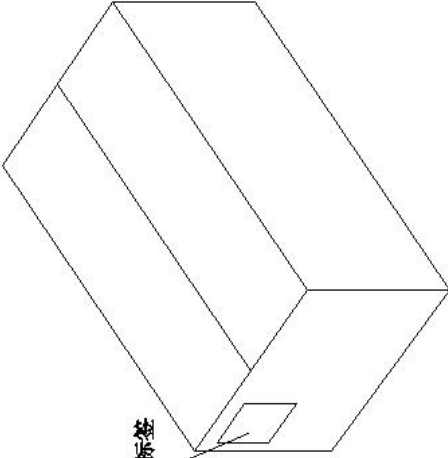
PE袋



3. 5000PCS/箱

实际包装数量视客户订单量而定

外箱标签



深圳有力科技有限公司

CUSTOMER	
PART NO	
TITLE	
S.H P/NO	
SIZE	
DRAWN	
CHECKED	
APPROVED	

TOLERANCE UNLESS OTHERWISE SPECIFIED	
UNIT: mm	ANGLES ±0.5° X ±2.0
SHEET: 1/1	X.XX ±0.2 XX ±5.0
SCALE: 1/1	X.X ±0.5