

深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd

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FAX: +86 0755-23097189

E-mail:wht0809@163.com

承認書 APPROVAL

客 户
:

天 线 类 型
AntennaType:

FPC Antenna

料 号
PART NO.:

产 品 型 号
Model number:

Z99-FD001-2.4G-1.13-L100MM-IPEX-1

日 期
D A T E:

2026-7-2

云顶呈样签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

联系电话: 0755 23073599

※ 承认书一式 三份, 惠蒙贵司承认签章

※ Approval in duplicate, please signed by your company.

3015 Jinchi Center, Hanghang Road, Bao'an District, Shenzhen

地址: 深圳市宝安区航空路锦驰中心 3015

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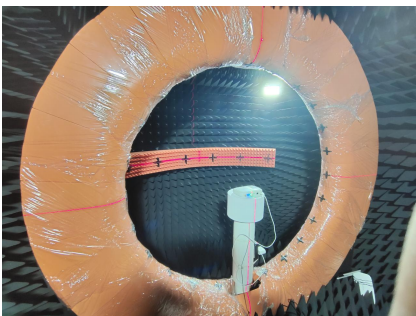
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1.测试项目与设备

	测试项目	设备
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.综合测试仪: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.无源测试 (Passive)	1.天线增益 (Gain) 2.天线效率 (Efficiency)	1. 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: Agilent E5071B HP 8753D



Manufacturer:Shenzhen CLT Electronics Co., Ltd.
Address:Room 1001, CLT R&D Building, No.1 Ganli 5th Road, Gankeng Community, Jihua Subdistrict
, Longgang District, Shenzhen City, Guangdong Province, P.R.China

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2.天线性能

SWR



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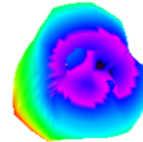
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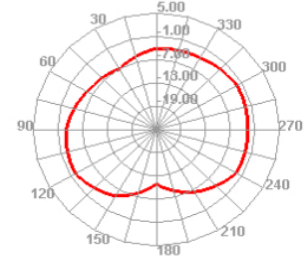
3. 天线效率与增益

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	45.04	2.52
2410	43.66	2.31
2420	42.53	2.14
2430	42.43	2.01
2440	44.16	2.07
2450	45.57	2.07
2460	47.62	2.27
2470	46.83	2.18
2480	48.2	2.36
2490	48.36	2.42
2500	47.86	2.39

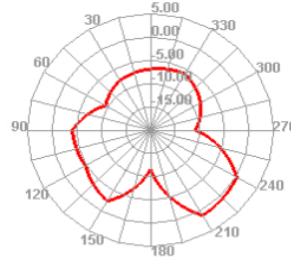
2400.000MHz



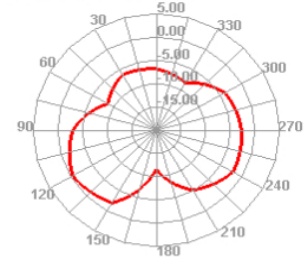
2400.000MHz H



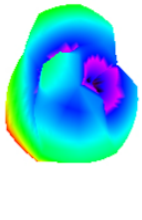
2400.000MHz E1



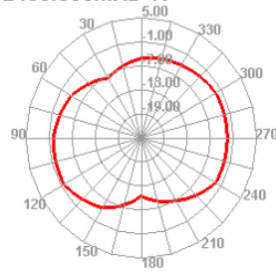
2400.000MHz E2



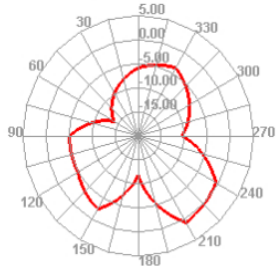
2450.000MHz



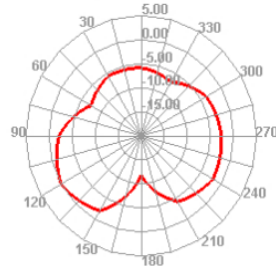
2450.000MHz H



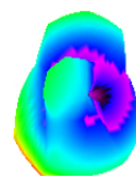
2450.000MHz E1



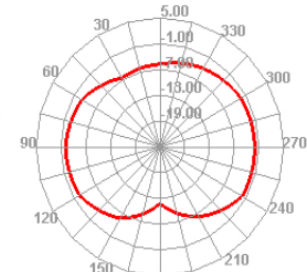
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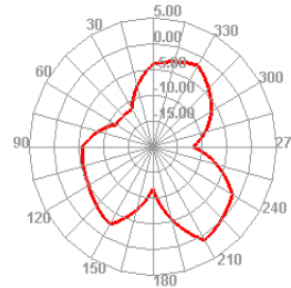
2500.000MHz



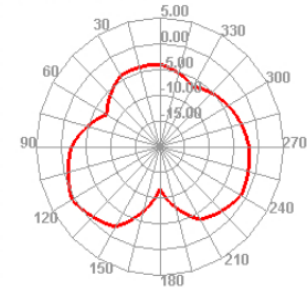
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



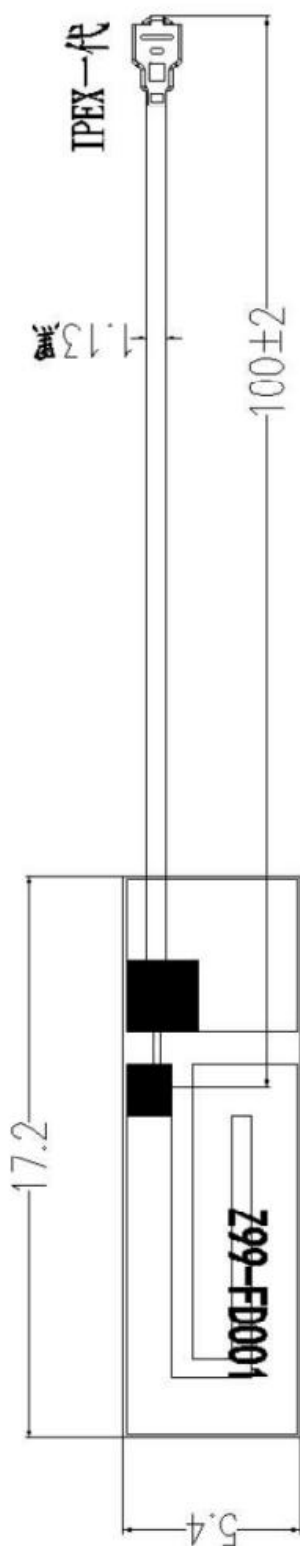
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4.天线结构图:



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电器技术参数			
电 性 能 指 标		Electrical Specifications	
频率范围	2400~2500MHz	Frequency Range	2400~2500MHz
电压驻波比	≤4.0	VSWR	≤4.0
输入阻抗	50 Ω	Input Impedance	50 Ω
最大增益	2.52DBI	Maximum gain	2.52 DBI
最大输入功率	50W	Maximum Input Power	50W
机 械 指 标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	BLACK
接口形式	IPEX 一代	Input connector	IPEX 1
天线线长	100mm	Cable length	100mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%