

厦门长京电子科技有限公司

Xiamen Changjing Electronic Technology Co., LTD

承认书

acknowledgement

客户

client:

产品类别

Product category:

2.4-2.5GHz 2dBi 黑色天线

2.4-2.5GHz 2dBi black antenna

客户项目号

Customer item number:

客户物料编码

Customer material code:

产品型号:

Product model:

2.4G 黑色外置天线108mm-SMA 接头

2.4G black external antenna 108mm-SMA connector

Xiamen Changjing Electronic Technology Co., LTD			
拟制 fiction:	审核 examine:	批准 approve:	
HSQ	HJF	CYM	

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一、天线规格表/Antenna specification sheet

Specification

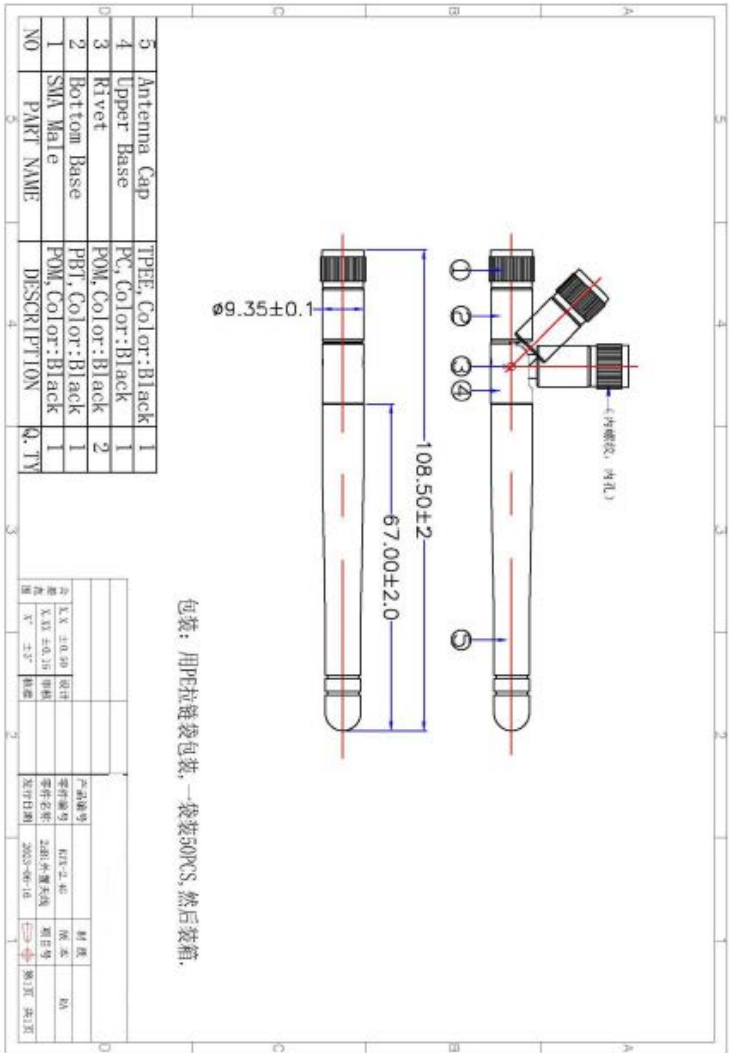
1. Electrical Properties

- 1.1 Frequency Range-----2.4-2.5GHz
- 1.2 Impedance----- 50 Ω
- 1.3 VSWR----- 1.92: 1
- 1.4 Return Loss----- -10dB or Less
- 1.5 Radiation----- Omni-directional
- 1.6 Gain ----- 2dBi
- 1.7 Polarization ----- Linear polarization
- 1.8 Admitted Power----- 1W

2. Physical Properties

- 2.1 Antenna Cover-----TPEE
- 2.2 Antenna Base----- PC
- 2.3 Antenna Base----- PBT
- 2.4 Operating Temp----- -10°C~+60°C
- 2.5 Storage Temp----- -10°C~+70°C
- 2.6 Color-----Black
- 2.7 CONN.-----Tin

二、成品图/Finished drawing:



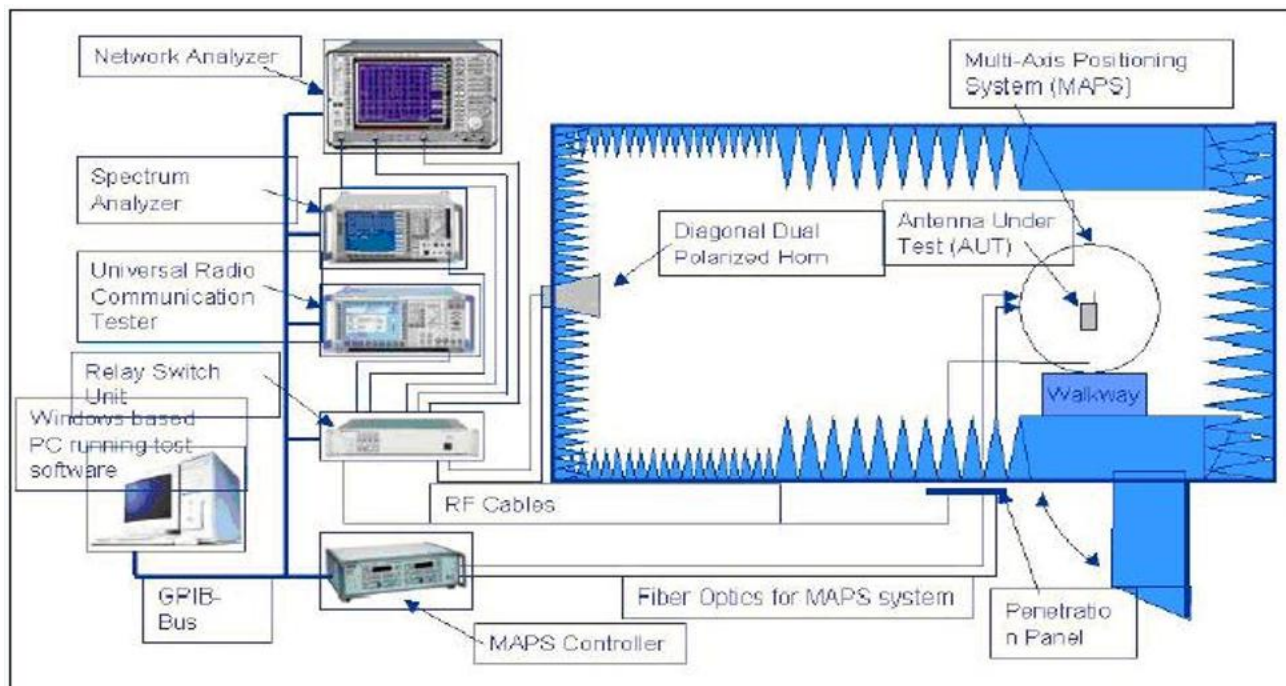
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三、测试报告/Test report:

测试设备: ETS7*4*3暗室. 8960/E5515C

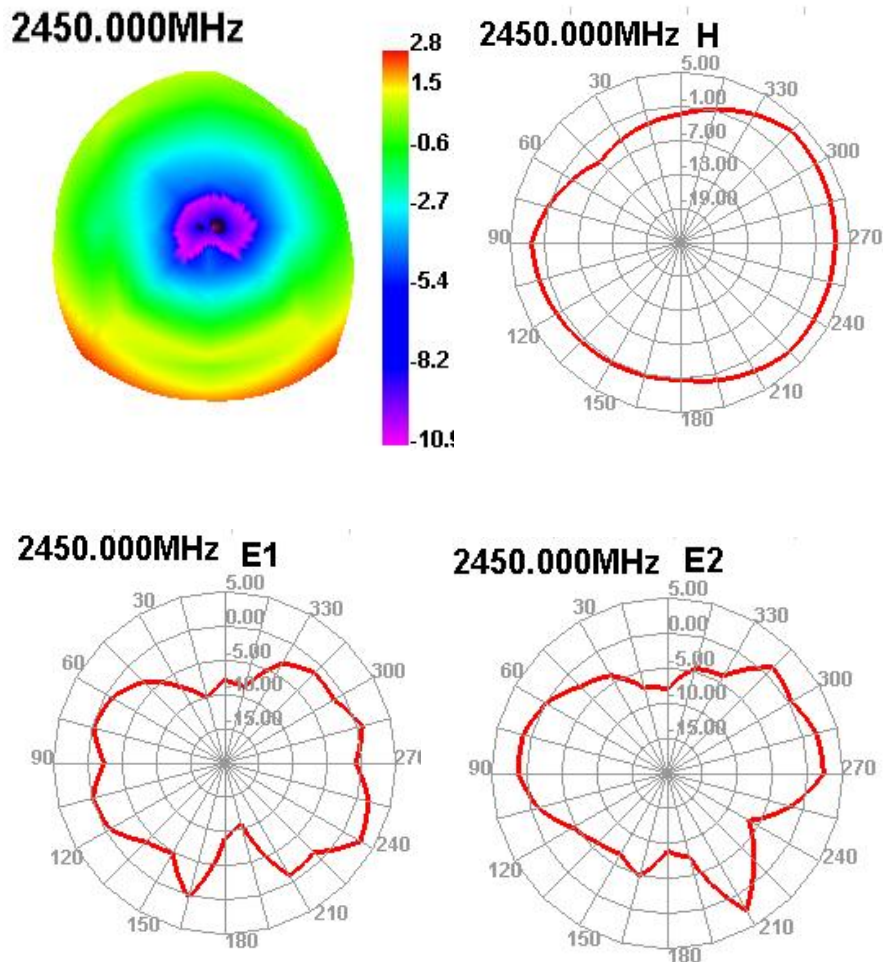
Test equipment: ETS7*4*3 darkroom. 8960/E5515C



Return loss:



2D、3DRaditation Pattern:



四、材质要求/Material requirement:

1. 本体Body: ■TPEE; 黑色/BLACK
2. 基座Base: ■PBT; 黑色/BLACK
3. 基座Base: ■PC; 黑色/BLACK
4. 铆钉Rivet: ■POM; 黑色/BLACK
5. PCB板: 单频PCB板/Single frequency PCB board
6. Cable: ■棕色Φ编织镀锡, 内导体镀锡, 外被FEP, 绝缘体 FEPBrown braided tinning, inner conductor tinned, outer FEP, insulator FEP

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五、外观检查/Visual inspection

1、外观颜色/Appearance color: ■黑色/BLACK Cable: 黑色/BLACK
2、外观判定基准: 无毛边; 无破损; 无刮伤;无颜色不符; 无内导体脱落, 松动等不良。Appearance criteria: no rough edges; No damage; No scratches; No color inconsistency; No inner conductor falling off, loose and other bad.

六、试装检验/Trial assembly inspection

项目 item	检查内容 Check content	检测工具 Detection tool	测试方法与判定标准 Test method and determination criteria	判定 determine
组装检验 Assembly inspection	装配效果 Assembly effect	目视 厚薄规 Look thick and thin	将天线与PCB、机壳、天线馈线装配时, 须组装顺畅, 不可有松动、难装或装不到位的现象 When assembling the antenna with the PCB, shell, and antenna feeder, it must be assembled smoothly, and it must not be loose, difficult to install or not installed in place	OK

七、电气性能/Electrical performance

项目/item	试验方法及条件/Test methods and conditions	规格及要求/Specifications and requirements	结果/result
1. 特性阻抗 Characteristic impedance	用TDR 测试天线特性阻抗/antenna characteristic impedance was measured by TDR	阻抗50 欧±10 欧 Impedance 50 Ω ±10 Ω	OK
2 驻波比 Standing-wave ratio	在2.4GHz-2.5GHz, 用网络分析仪测试驻波比 At 2.4GHz~2.5GHz, the standing wave ratio is tested with a network analyzer	VSWR 驻波比1.92:1 MAX VSWR standing wave ratio 1.92:1 MAX	OK
3 回波损耗 Return loss	在2.4GHz-2.5GHz, 用网络分析仪测试回波损耗 At 2.4GHz~2.5GHz, the return loss was tested with a network analyzer	回波损耗-10dB MAX Return loss -10dB MAX	OK
4 增益 transmission gain	在 2.4GHz-2.5GHz 微波暗室测试增益和场型图 gain and field pattern were tested in a 2.4GHz~2.5GHz microwave darkroom	场形图增益符合规格要求 gain of the field graph meets the specifications	OK

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八、可靠性测试/Reliability test

项目/item	试验方法及条件 Test methods and conditions	规格及要求 Specifications and requirements	结果/result
盐雾测试 Salt spray test	盐水浓度50+/-10g/l(约5%);PH6.5-7.2;试验温度35+/-1度;腐蚀时间16H. Brine concentration 50+/-10g/l(about 5%); PH6.5-7.2; Test temperature 35+/-1 degrees; Corrosion time 16H	判定方法:试验后用20倍放大镜观察;无氧化之不良;即判定合格 Determination method: observation with 20x magnifying glass after test; No adverse oxidation; Instant acceptance	OK
振动测试 Vibration test	振 频 10-2000-10HZ 振 幅 1.52mm 沿 X.Y.Z 方向各 10 次	外观无明显变化,各电性参数符合规格误差 appearance has no obvious change, and the electrical parameters meet the specification error	OK
跌落测试 Drop test	从1M处跌落在木板上 Fell about 1 meter onto the board	外观无明显变化,各电性参数符合规格误差 appearance has no obvious change, and the electrical parameters meet the specification error	OK
温度循环测试 Temperature cycle test	高温:70℃;低温:-20℃持续时间:每种温度持续30分钟;转换时间:10分钟;循环次数:5次;恢复时间:4到6hrs High temperature: 70℃; Low temperature: -20℃ Duration: Each temperature lasts for 30 minutes Transfer time: 10 minutes Number of cycles: 5 Recovery time: 4 to 6hrs	外观无明显变化,各电性参数符合规格误差 appearance has no obvious change, and the electrical parameters meet the specification error	OK
恒温恒湿测试 Constant temperature and humidity test	温湿度:40±2℃,90-95%RH 持续时间:500hrs 恢复时间:4到6hrs检测时间:240 & 500hrs Temperature and humidity: 40±2℃, 90-95% RH Duration: 500hrs Recovery time: 4 to 6hrs Detection time: 240 & 500hrs	外观无明显变化,各电性参数符合规格误差 appearance has no obvious change, and the electrical parameters meet the specification error	OK
高温测试 High temperature test	温度:85℃;持续时间:240hrs;恢复时间:4到6hrs;检测时间:240 hrs Temperature: 85℃ Duration: 240hrs Recovery time: 4 to 6hrs Test time: 240 hrs	外观无明显变化,各电性参数符合规格误差 appearance has no obvious change, and the electrical parameters meet the specification error	OK
低温测试 Low temperature test	温度:-20℃;持续时间:240hrs;恢复时间:4到6hrs;检测时间:240 hrs; Temperature: -20℃ Duration: 240hrs Recovery time: 4 to 6hrs Test time: 240 hrs	外观无明显变化,各电性参数符合规格误差 appearance has no obvious change, and the electrical parameters meet the specification error	OK

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九、包装要求/Packing requirement:

■PE袋/PE bag ■纸箱/Paper box

包装说明: 每50PCS天线成品用PE袋装成一包, 然后装箱 (一箱装900PCS或1800PCS)

Packing instructions: Each 50PCS antenna is packed into a PE bag and then packed (900PCS or 1800PCS in a box).

