

C&R 泰州超人汽车电子有限公司

TAIZHOU CHAOREN AUTOMOBILE ELECTRONICS CO., LTD

产品规格书

PRODUCT SPECIFICATION

| | | |
|-------------------------|---------|-------------------|
| | 超人电子 | 德赛西威 |
| 产品名称: Product Name: | WIFI 天线 | WIFI 天线 |
| 产品编码: Product Number | EC120 | T1D(57600000167A) |
| 版本号: Version Number | A3 | A3 |

制订 (EDIT)

审核 (CHECK)

批准 (APPROVAL)

吉蓓 2023-02-28

任正章 2023-02-28

刘桂亮 2023-02-28

中国江苏省泰州市口岸镇发展路 1 号

1 Development Road, Kouan industrial, Taizhou City, Jiangsu Province, China

Tel: 86-523-86910531、86910532

Fax: 86-523-86910533

客户批复

承认:

审核:

批准:

C&R 泰州超人汽车电子有限公司

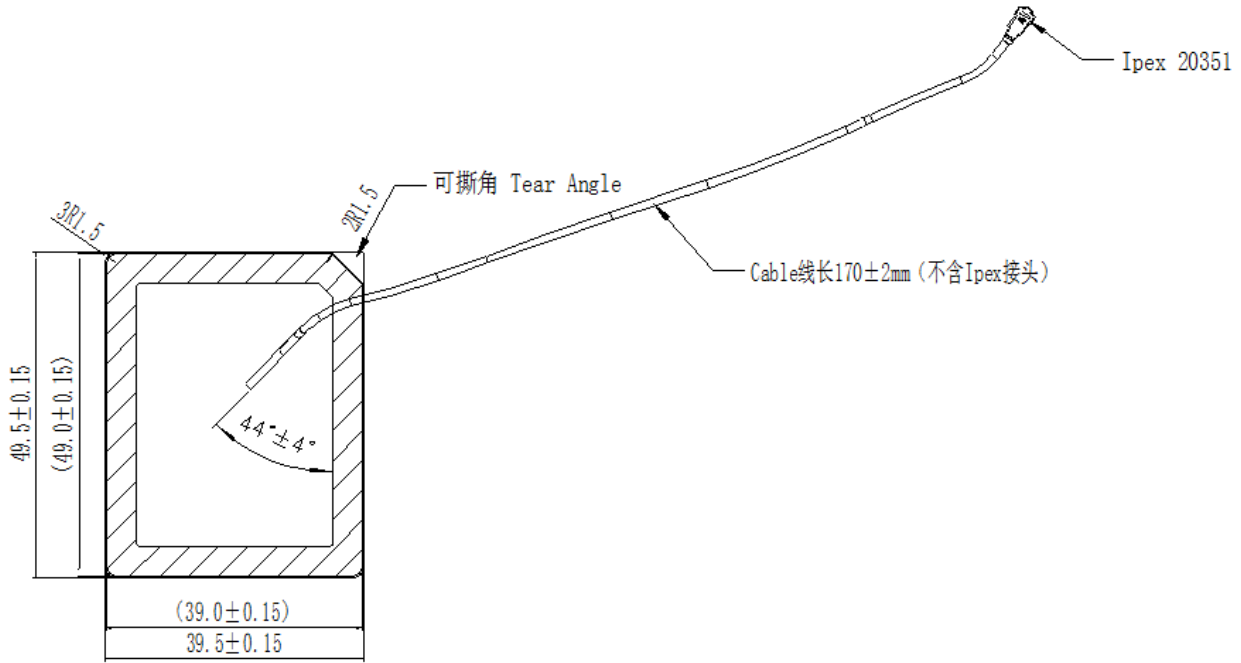
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| 编 号 Serial Number | 230228-01 |
| 版 本 号 Version | A3 |
| 产品名称 Product Name | WIFI 天线 |
| 产品编码 Product | EC120 |
| 页 码 Pages | Page 1of 5 |

1. 产品简图 (Outline drawing)



2. 适用温度范围 (Ambient temperature Range)

-40°C ~ +105°C

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审核 (CHECK)

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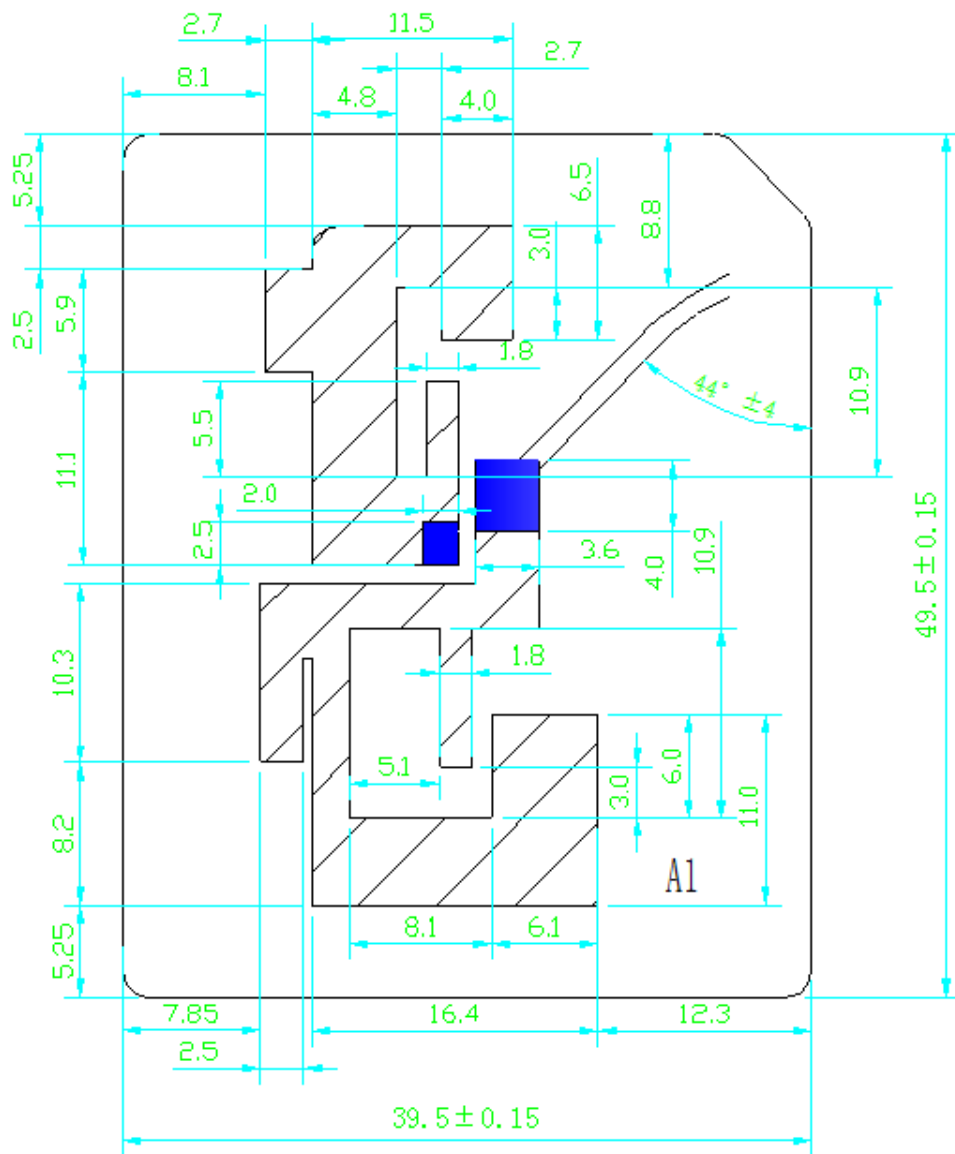
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| 页 码 Pages | Page 2 of 5 |

2. 天线简图 (Antenna drawing)



2. 适用温度范围 (Ambient temperature Range)

-40°C ~ +105°C

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页 码 Pages Page 3 of 5

3.产品性能 (Performance)

| 项目 Item | 测试条件 Test Condition | 规格要求 Requirement | 测试结果 Result |
|---|---|--|----------------|
| 1 外观 Appearance | 目测 Visual by eye 视力 1.0 以上 Light: >1.0 照明: 200~300Lx Lamp: 200 To 300Lx 目测距离: 0.3~0.5m Space: 0.3 to 0.5m | 1. 表面清洁, 线条无漏铜划伤, 板边无毛刺。 Clean surface, line without leakage of copper scratches, plate edge without burr. 2. 线条无短断路现象。 The line has no short break phenomenon. | OK |
| 2 电性能 Electrical performance | 频率 Frequency | 2.4~2.484GHz 5.15~5.85GHz | OK |
| | 效率 Efficiency | 2.4~2.484GHz ≥40% 5.15~5.85GHz ≥30% | 45.8% 43.9% |
| | 电压驻波比 VSWR | VSWR ≤2.5 | 1.8 |
| | 平均增益 Average Gain @2.4GHz | ≥-4.3dB | -3.5dB |
| | 平均增益 Average Gain @5GHz | ≥-5.3dB | -4.2dB |
| | 最大增益 Peak Gain@2.42GHz | ≥1dBi | 4.7dBi |
| | 最大增益 Peak Gain@5.75GHz | ≥3dBi | 3.7dBi |
| 3 耐高温 High temperature resistance | 把样件放入高温试验箱中, 以 0.1~1℃/min 的温度变化速度, 将温度调到 105±2℃待平衡后保持 96 h, 然后以同样的速度降到室温。 Put the sample into a high temperature test chamber, and adjust the temperature to 105±2℃ at the temperature change rate of 0.1 ~ 1℃/min. Keep the balance for 96h, and then reduce to room temperature at the same speed. | 外观良好 Good appearance | OK |
| | | VSWR ≤2.5 | |
| 制订 (EDIT) | | 审核 (CHECK) | 批准 (APPROVAL) |
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3.产品性能 (Performance)

| 项目 Item | 测试条件 Test Condition | 规格要求 Requirement | 测试结果 Result |
|---|---|----------------------|----------------|
| 4 耐低温 Low temperature resistant | 把样件放入低温试验箱中,以 0.1~1℃/min 的温度变化速度,将温度调到-40±2℃待平衡后保持 96 h,然后以同样的速度降到室温。 Put the sample into the low temperature test chamber, at the temperature change rate of 0.1 ~ 1 °C/min, adjust the temperature to -40±2°C, maintain the balance for 96h, and then reduce to room temperature at the same speed. | 外观良好 Good appearance | OK |
| | | VSWR≤2.5 | |
| 5 冷热冲击 Thermal shock | -40℃ 3H, 105℃ 3H 为 1 个循环,温度转换时间小于 10s,共 5 个循环 -40℃ for 3H, 105℃ for 3H is a cycle, the temperature conversion time is less than 10s, a total of 5 cycles | 外观良好 Good appearance | OK |
| | | VSWR≤2.5 | |
| 6 盐雾 Salt spray test | 把样件从试验箱顶悬挂下来,采用浓度为(5±0.1)% (质量百分比)的氯化钠溶液,连续雾化 48 h,试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复 1~2 h。 -40℃ 3H, 105℃ 3H is a cycle, the temperature conversion time is less than 10s, a total of 5 cycles to hang the sample from the top of the test box, using the concentration of (5±0.1) % (mass percentage) sodium chloride solution, continuous atomization for 48h, after the test with flowing distilled water gently wash away the surface sediment. Recover at normal | 外观良好 Good appearance | OK |
| | | VSWR≤2.5 | |
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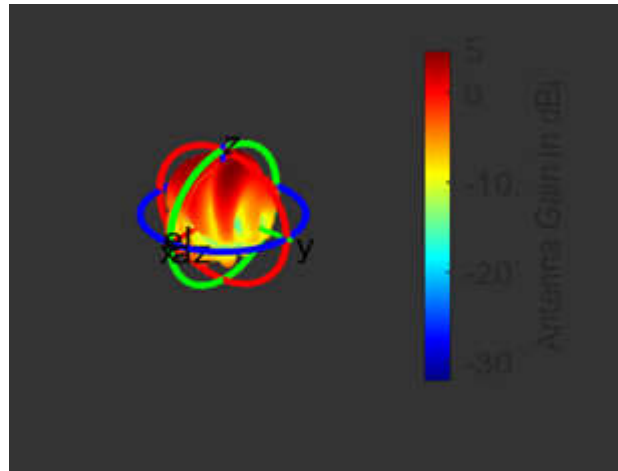
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| 页 码 Pages | Page 5 of 5 |

3.产品性能 (Performance)

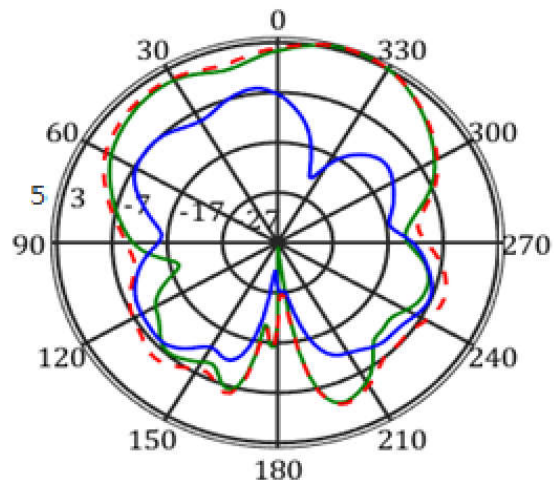
| 项目 Item | 测试条件 Test Condition | 规格要求 Requirement | 测试结果 Result |
|---------------|---|----------------------|----------------|
| 7 | 恒定湿热 Steady damp heat test 60°C, 95%R,96H, | 外观良好 Good appearance | OK |
| | | VSWR \leq 2.5 | |
| 8 | 机械振动 mechanical vibration 10-500-10HZ in 12min; 10g 加速度, x、y、z 每个轴 2H,5 个循环 10-500-10HZ in 12min; 10g acceleration, x, y, z 2H per axis,5 cycles | 外观良好 Good appearance | OK |
| | | VSWR \leq 2.5 | |
| 9 | 自由跌落 Free fall 1m 高, x、y、z 轴正反向各 1 次 | 外观良好 Good appearance | OK |
| | | VSWR \leq 2.5 | |
| 10 | 以 25mm/min 速度 Ipex 头与线束的拉力 Tension between Ipex head and harness at 25mm/min | 拉力 \geq 25N | 30.1N |
| | 以 25mm/min 速度,线束在板上焊接端水平拉力 At 25mm/min, the wire harness pulls horizontally on the welded end of the plate | | 32.8N |
| | 以 25mm/min 速度,线束在板上焊接端垂直拉力 At a speed of 25mm/min, the wire harness pulls vertically on the welded end of the plate | | 29.6N |
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4. 天线方向图 (Antenna pattern)

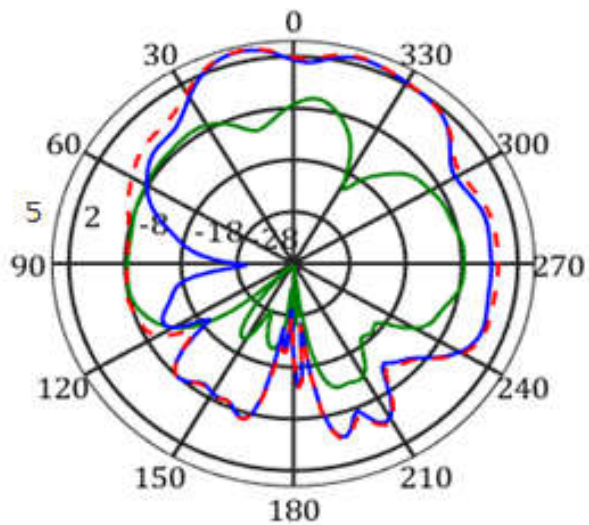
2.42GHz 2D/3D



$\Phi=0^\circ$

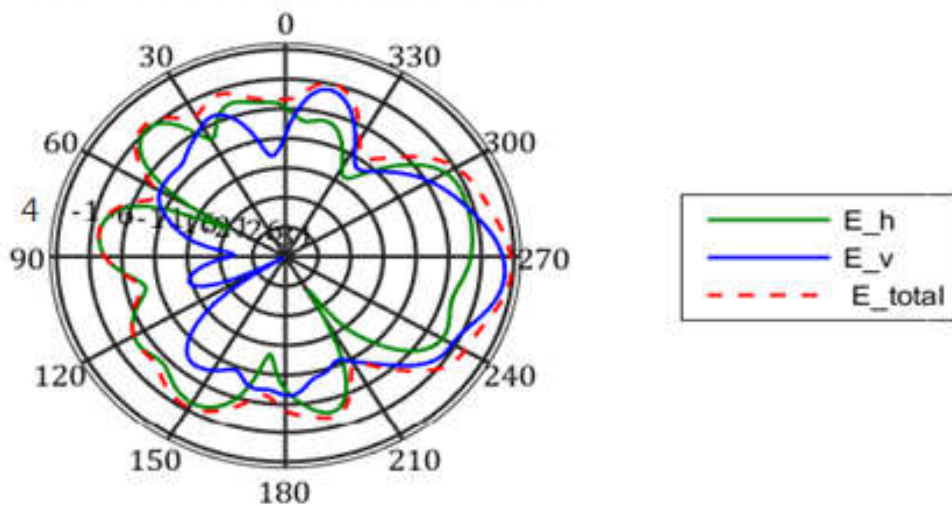


$P=90^\circ$

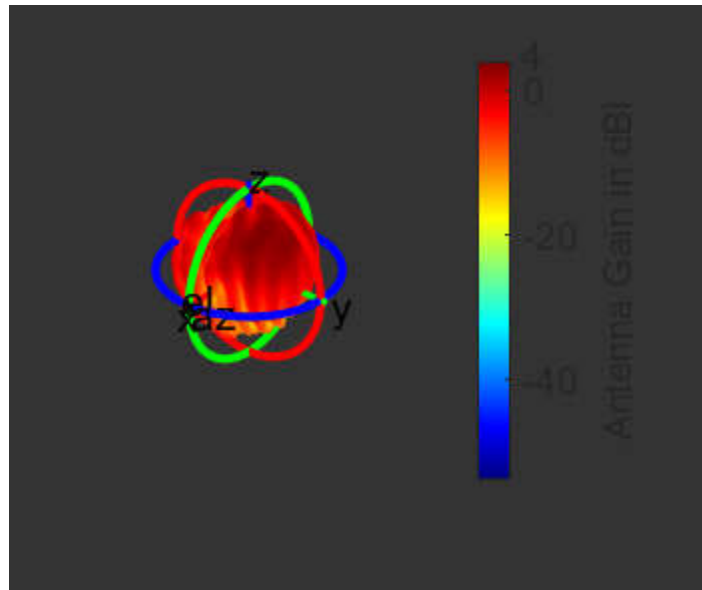


$T=90^\circ$

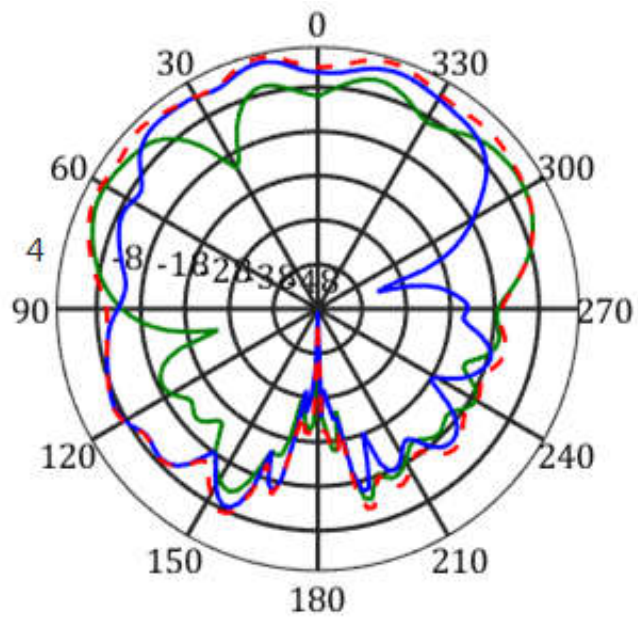
frequency=2420MHz, X-Y Plane



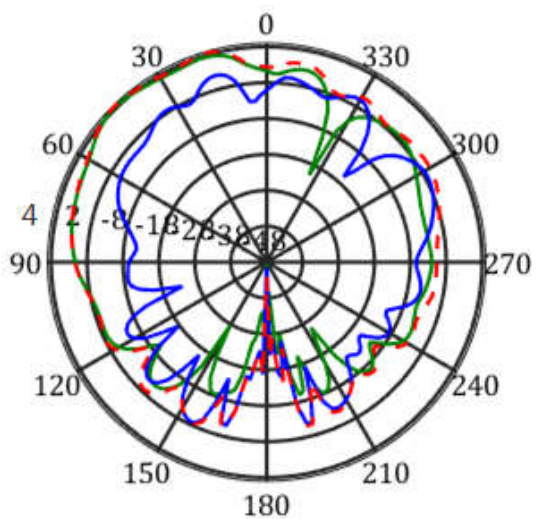
5.75GHz 2D/3D



$\phi=0^\circ$



$P=90^\circ$



$T=90^\circ$

frequency=5750MHz, X-Y Plane

