

Shenzhen Yingjia Chuang electronic technology Co., LTD http://www.szsyjc.com

| CUSTOMER NAME | | | | | | | | |
|-------------------|---|---------|--|--|--|--|--|--|
| CUSTOMER P/N | | | | | | | | |
| PART NAME | 5.8G black PCB internal antenna 1.13 Black wire | | | | | | | |
| | L=45mm (Applicable model: GM3000, | | | | | | | |
| | NM3098,NI | M3098B) | | | | | | |
| P/ N | YJC-6N045-B63 | | | | | | | |
| APPROVAL REV. | AO | | | | | | | |
| DELIVERY DATE | May 24, 2023 | | | | | | | |
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| CHECKED BY | Fang Wenfeng | | | | | | | |
| APPROVED BY | Chauhan | | | | | | | |
| Customer Approved | | | | | | | | |
| Prepared By | Checked By Approved E | | | | | | | |
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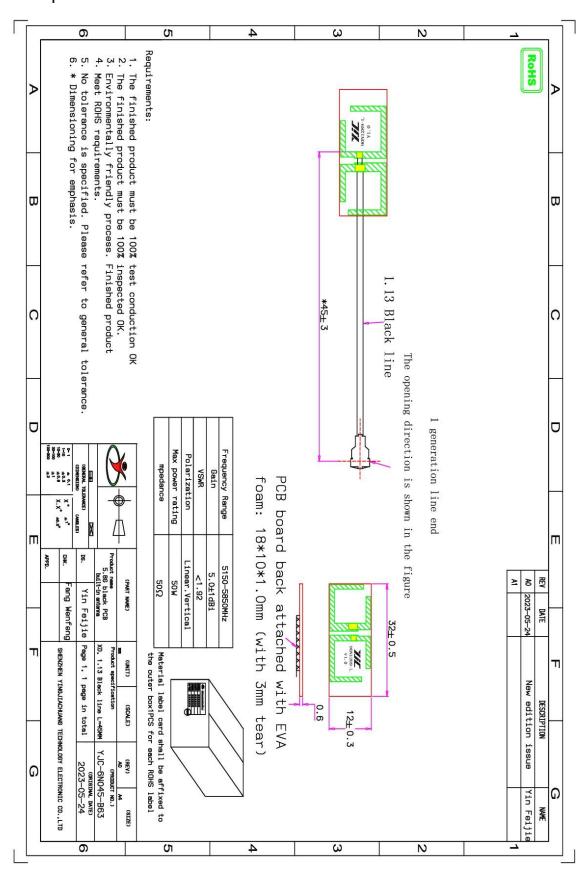
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resume:

| edition | Content of change and reasons for change | date | release |
|---------|--|--------------|---------|
| A/0 | Initial release | May 24, 2023 | |
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Antenna plan:



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Antenna technical parameters and environmental testing:

| Electrical technical parameter | | | | | | |
|--------------------------------|--------------|---------------------------|-------------|--|--|--|
| Electrical Specif | ications | Mechanical Specifications | | | | |
| Frequency Range | 5150-5850MHz | Cable Color Black | | | | |
| VSWR | <1.92 | Input connector | XD | | | |
| Input Impedance | 50 Ω | Cable length | 45mm | | | |
| Direction | A11 | Working Temperature | -20°C~+70°C | | | |
| Gain | 5.0±1dBi | Working Humidity | 20%~80% | | | |

Environmental performance test:

| Project | Test condition | Standard | |
|---|--|---|--|
| Storage Conditions | In the absence of specified test temperature, humidity, air pressure is as follows:: 1. Temperature is - 30 °C ~ + 80 °C | Electrical and mechanical performace | |
| | 2. Relative humidity of 45% to 45%3. Air pressure is 86 kpa to 106 kpa | is normal | |
| High and low temperature test | h under normal conditions, check the appearance | | |
| Constant damp and hot resistance test | 95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality | Size should meet the requirements and meet the performance of mechinery and electric. | |
| vibration test | 10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times | Electrical and mechanical performace is normal | |
| Fall down test 1 m high altitude in accordance with the perpendicular axis free drop 3 times | | Electrical and mechanical performace is normal | |

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Antenna physical diagram and attached location diagram:





Ante nna atta chm ent posi tion

Antenna performance test diagram:

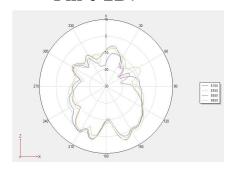


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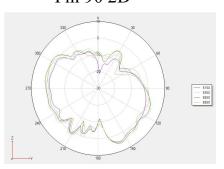
2D and 3D test data (5.8G):

| Frequency | Efficiency (%) | Gain. (dBi) |
|-----------|----------------|-------------|
| 5150MHz | 64.86 | 4.69 |
| 5250MHz | 71.61 | 5.28 |
| 5350MHz | 70.79 | 5.09 |
| 5450MHz | 67.76 | 4.45 |
| 5550MHz | 74.64 | 5.66 |
| 5650MHz | 68.08 | 4.75 |
| 5750MHz | 70.47 | 5.67 |
| 5850MHz | 69.18 | 4.85 |

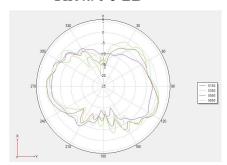
Phi 0 2D:



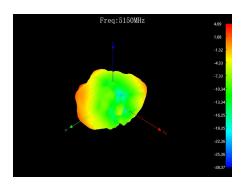
Phi 90 2D

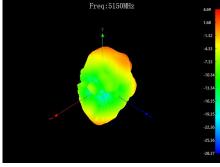


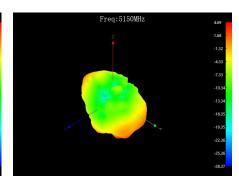
Theta 90 2D



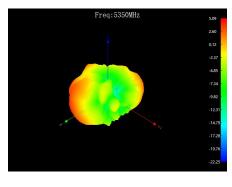
3D 5150:

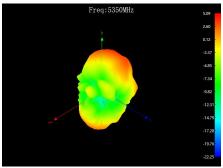


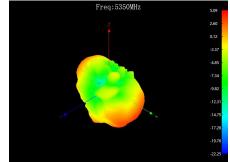




3D 5350:

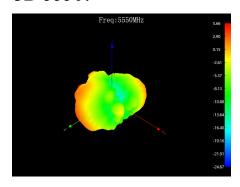


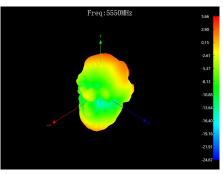


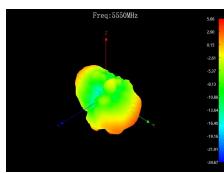


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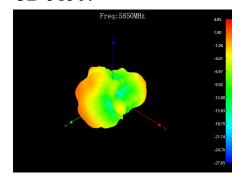
3D 5550:

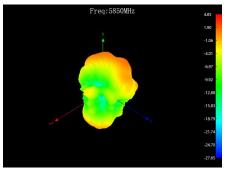


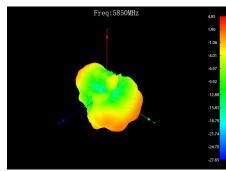




3D 5850:









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| Product Type 1.13 Wire | | | | | | | |
|----------------------------------|--|------------|-------------------|----------------|-------------|----------------|--|
| Structure Drawing | | | | | | | |
| Structure Characteristic | es | | | | | | |
| Structure | Item | | | | Standard \ | Value | |
| | Material | Silver p | late | ed copper wire | e | | |
| Inner Conductor | (mm/Composition(No./mm) | | 7/0.08±0.005 | | | | |
| miler conductor | Nom.Dia(mm) | Ф0.24±0.01 | | | | | |
| | Material | | FEP | | | | |
| Insulation | Nom.Dia(mm) | | Ф0.7±0.0 | 3 | | | |
| | Material | | Tinned c | opp | oer | | |
| | From | | Weaving | | | | |
| Outer Conductor | Shielding rate | | ≧90% | | | | |
| | Nom.Dia(mm) | | Ф0.92±0. | 03 | | | |
| | Material | | FEP | | | | |
| Jacket | Nom.Dia(mm) | | Φ1.13±0. | 05 | | | |
| 电气性能 Electrical Char | acteristics | | | | | | |
| Item | Standard Value | | Item | | Frequency | Standard Value | |
| Impedance (Ω) | 50±3 | | | | 1GHz | ≤2.23 | |
| Capacitance(pF/m) | 98 | | Attenuation@20 °C | | 2GHz | ≤3.15 | |
| Tensile strengthkgf/mm² | 1.76 | Atte | | | 3GHz | ≤3.96 | |
| VSWR | ≤1.40@0-6GHz | | | | 4GHz | ≤4.6 | |
| Dielectric Strength (A.C V/1min) | 1000 | (0 | dB/100m) | | 5GHz | ≤5.15 | |
| (MHz) Max.oper. frequency | 6000 | | | | 6GHz | ≤5.7 | |
| Dependability | | | | | | | |
| Min.Bending Radius/Single | | | mm | | | 4 | |
| Min.Bending Radius/Repeated | | | mm | | | 8 | |
| Operating Temperature | | | ℃ | | 0~+80 | | |
| Packing | | | | | | | |
| Packing Mode | | 10 | 000 (m/di | isc) | Reel | | |
| Trips for Use | | | | | | | |
| Storage Environment | Temperature: below 30 |)℃, hum | nidity: 20- | 65% | % | | |
| Teflon Shrink | Insulation shrinkage ≦ | ≦0.2mm | ; Sheath s | hri | nkage ≦0.3m | nm | |
| Processing temperature | Under the condition of $250^{\circ}\text{C} \sim 260^{\circ}\text{C}$, it can withstand for a short time; Thermal decomposition occurs above 300°C | | | | | | |
| The best save cycle | After 2 months, the effect of tin becomes worse after 2 months, but the soon as possible after peeling in the high temperature and high humidity environment in summer | | | | | | |



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Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

| 1 | Material ICP report # | Test | Test Date | Content of harmful substances (ppm) | | | | | | PASS? | |
|--------------------------|--------------------------|--------------------|-----------|-------------------------------------|----|----|----|-------|-----|-------|------|
| | Composition | (| Org. | | Cd | Pb | Hg | Cr 6+ | PBB | PBDE | PASS |
| PCB | PCB | CANEC2221844502 | SGS | 22/10/20 | ND | 12 | ND | ND | ND | ND | PASS |
| Wire rod | Coaxial cable | CANEC2301851703 | SGS | 23/02/23 | ND | ND | ND | ND | ND | ND | PASS |
| Eco-friendly tin wire | Eco-friendly tin wire | SHAEC23006357502 | SGS | 23/05/23 | ND | 43 | ND | ND | ND | ND | PASS |
| terminal Gold coating | Phosphor bronze | CANEC2301145810 | SGS | 23/02/08 | ND | 5 | ND | ND | ND | ND | PASS |
| | Gold coating | A2230400553101001E | CTI | 23/08/12 | ND | ND | ND | ND | ND | ND | PASS |
| | Rubber core | A2230035037101002E | SGS | 23/02/06 | ND | ND | ND | ND | ND | ND | PASS |
| EVA sponge | EVA foam | CANEC2227574118 | SGS | 23/01/03 | ND | 8 | ND | ND | ND | ND | PASS |