

Admit it

| | | | | |
|---|---|---|--------------------|---------------------|
| The product description: | The manufacturer: Welletronics Communication Technology Limited The name of the material: Bluetooth antenna Material code: 3.01.205GPXX000 The version number: V1.0 | Project type: ID205G PRO Specification/Color: black Sign the sample date: 2024.04.19 note: | | |
| The attachment: | <input type="radio"/> Description of electrical and mechanical properties (Specification) <input type="radio"/> QC Engineering drawing <input type="radio"/> Reliability test report <input type="radio"/> The sample <input type="radio"/> The packing way <input type="radio"/> CPK report <input type="radio"/> Raw material list report /RoHS report/HF/REACH <input type="radio"/> Manufacturing flow chart <input type="radio"/> Full size measurement report | | | |
| Supplier sign and approve | artificial: | audit: approval: | | |
| The above shall be filled in by the supplier and the following shall be filled in by Aidu | | | | |
| | department | Confirm the content | Verify the results | Confirm person/date |
| Technical confirmation column | Supplier quality | <input type="checkbox"/> RoHS material <input type="checkbox"/> no RoHS material <input type="checkbox"/> Meet REACH requirements <input type="checkbox"/> Meet halogen-free requirements <input type="checkbox"/> Other Environmental Requirements | | |
| | ID of Design Department | <input type="checkbox"/> The customer request ID <input type="checkbox"/> Color confirmation <input type="checkbox"/> Surface process confirmation <input type="checkbox"/> Shell, hardware, key material | | |
| | Structural engineer | <input type="checkbox"/> Confirm the size of 2D drawing files <input type="checkbox"/> Specifications and technical requirements <input type="checkbox"/> Focus on size marking control <input type="checkbox"/> Electrical performance parameter <input type="checkbox"/> Adapter validation <input type="checkbox"/> function <input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> The effect | | |
| | Hardware engineer | <input type="checkbox"/> Confirm the size of 2D drawing files <input type="checkbox"/> Specifications and technical requirements <input type="checkbox"/> Focus on size marking control <input type="checkbox"/> Electrical performance parameter <input type="checkbox"/> Adapter validation <input type="checkbox"/> function <input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> The effect | | |
| | R&d quality | <input type="checkbox"/> Test standard confirmation <input type="checkbox"/> appearance <input type="checkbox"/> Standardization of dimension marking (key dimensions) <input type="checkbox"/> Reliability verification <input type="checkbox"/> Adapter validation <input type="checkbox"/> function <input type="checkbox"/> The effect | | |
| Final confirmation | Project Manager | <input type="checkbox"/> Acknowledge the completeness of the documents <input type="checkbox"/> Standardization of dimension marking (key dimensions) <input type="checkbox"/> Specifications and technical requirements <input type="checkbox"/> appearance <input type="checkbox"/> Electrical performance parameter <input type="checkbox"/> function <input type="checkbox"/> The effect | | |
| Admitted conditions: | <input type="checkbox"/> Official recognition <input type="checkbox"/> Set limit to admit <input type="checkbox"/> Refuse to admit | | | |
| Distribution department: | <input type="checkbox"/> IQC <input type="checkbox"/> other _____ <input type="checkbox"/> supplier <input type="checkbox"/> The customer <input type="checkbox"/> after-sales <input type="checkbox"/> SQE/ Document control | | | |

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QF-QMP-QA01-01

Catalog

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Three 、 Change history

Change of resume

| Serial number | Date of change | entry name | Edition | Change content | Remarks |
|---------------|----------------|-----------------------|---------|----------------|-----------|
| 1 | Apr 17, 2024 | ID205G pro BT antenna | V1.0 | nothing | New issue |
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Four 、 Electrical characteristics

1. Antenna Structur

FPC antenna

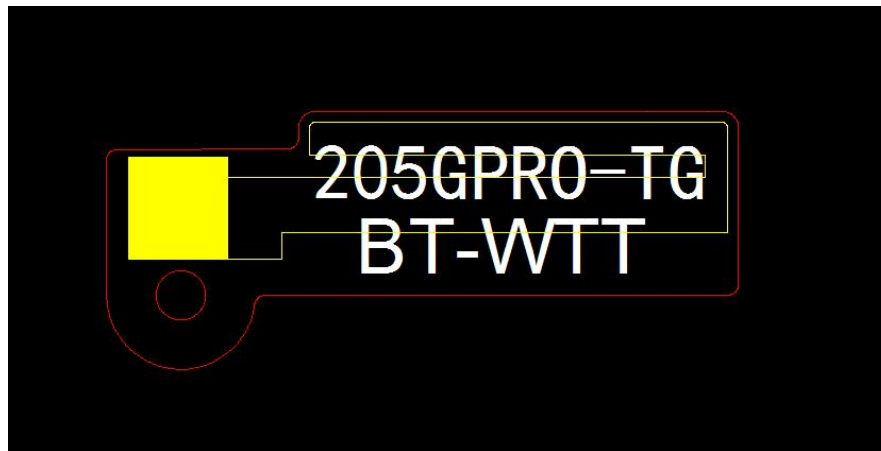
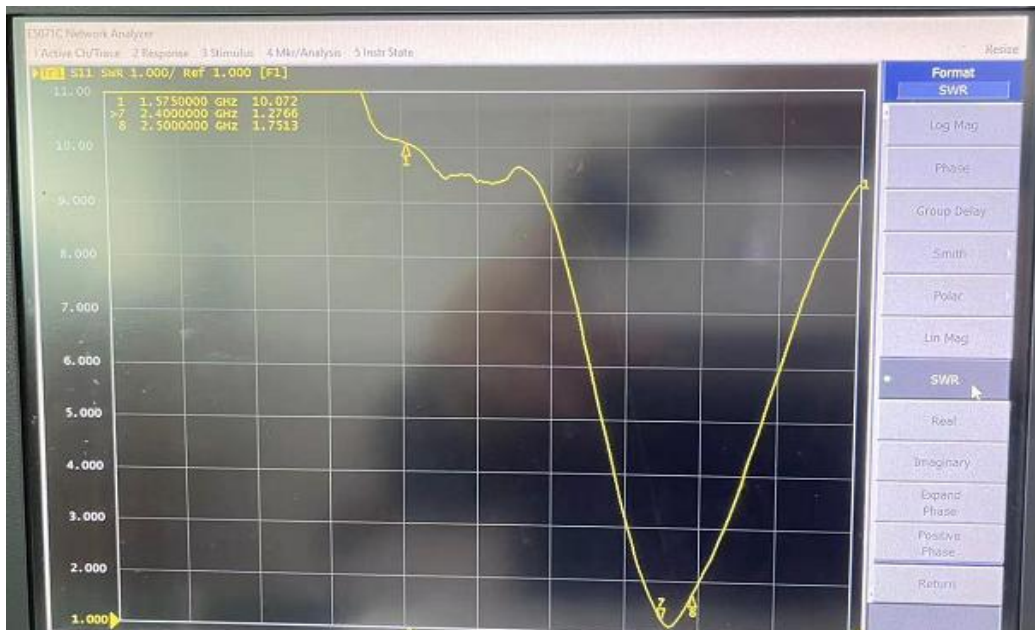


Figure antenna structure

2. Test Results

BT SWR



BT Passive efficiency

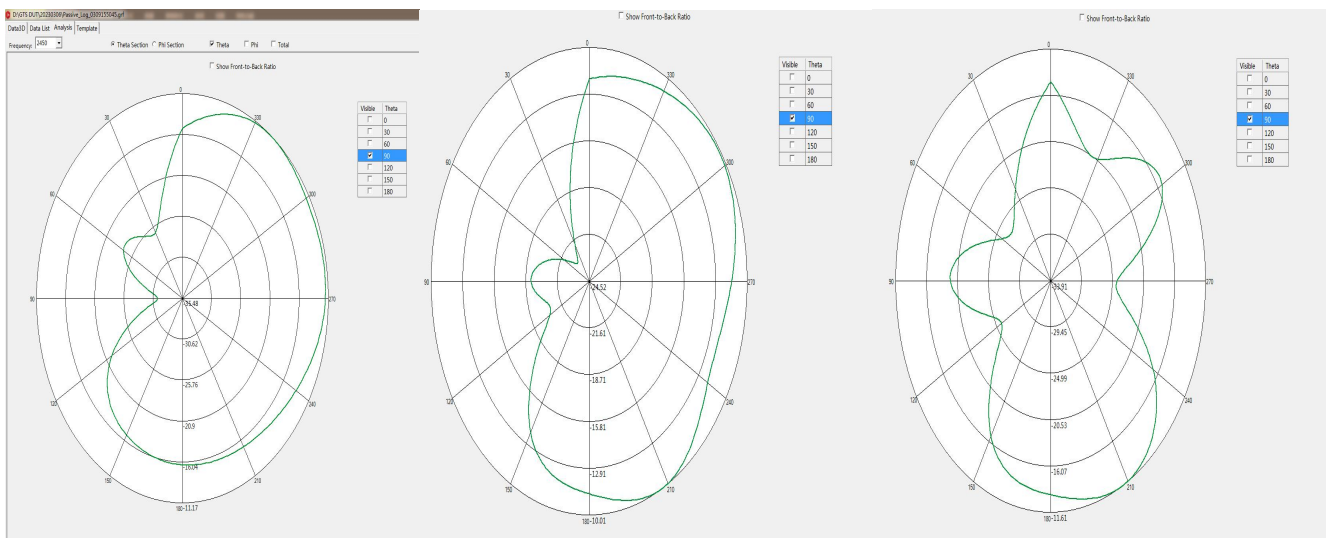
Free

| Freq | Efficien cy_dB | Efficien cy_Pcent | Gain |
|------|-------------------|----------------------|-------|
| 2400 | -7.67 | 17.09 | -4.38 |
| 2410 | -7.63 | 17.26 | -4.46 |
| 2420 | -7.44 | 18.04 | -4.8 |
| 2430 | -7.33 | 18.51 | -5.11 |
| 2440 | -7.09 | 19.54 | -5.28 |
| 2450 | -6.98 | 20.06 | -5.39 |
| 2460 | -6.72 | 21.28 | -5.74 |
| 2470 | -6.76 | 21.08 | -6.06 |
| 2480 | -6.77 | 21.06 | -6.14 |
| 2490 | -6.67 | 21.53 | -6.51 |
| 2500 | -7.42 | 18.12 | -6.81 |

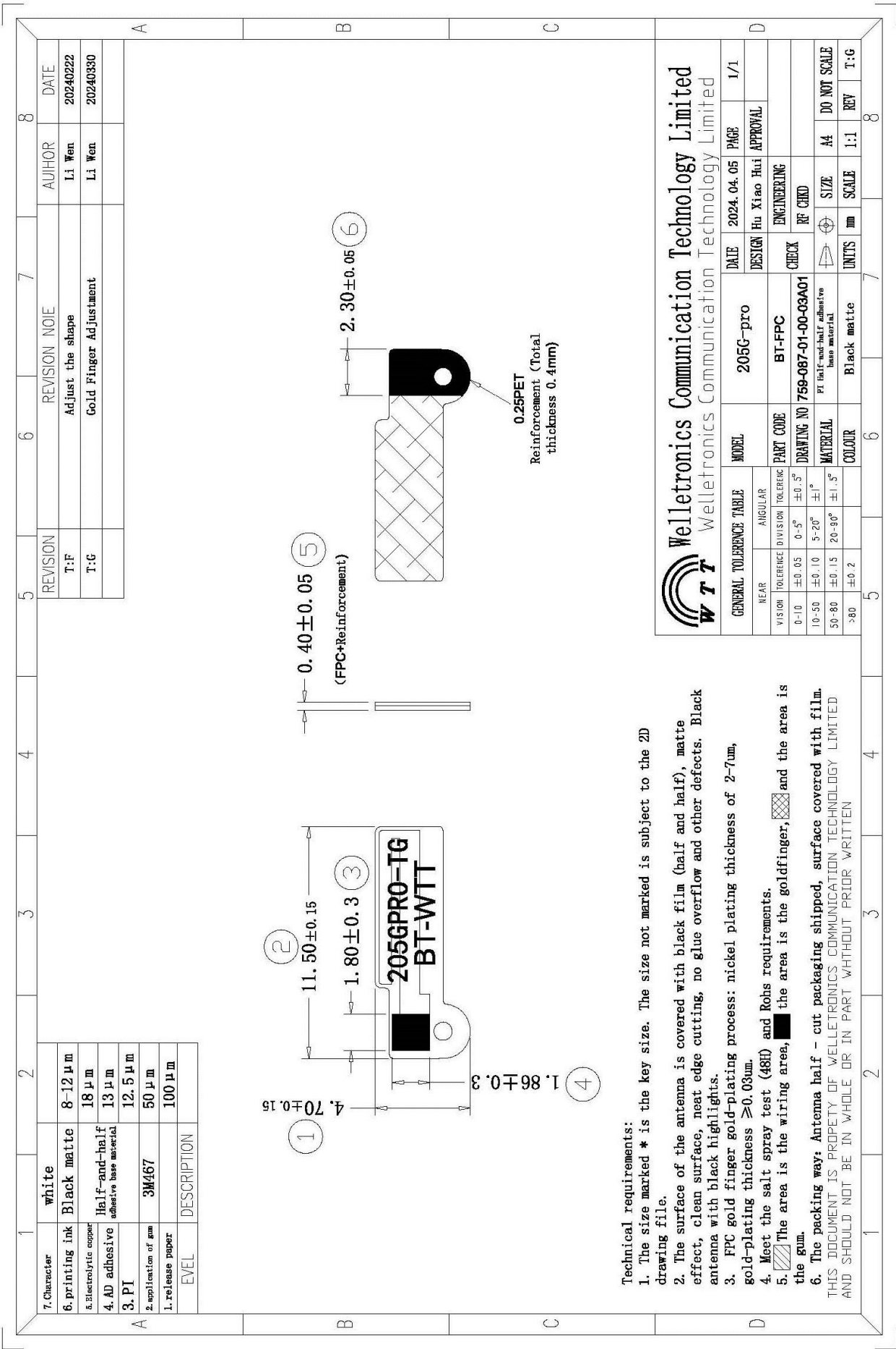
Arm

| Freq | Efficien cy_dB | Efficien cy_Pcent | Gain |
|------|-------------------|----------------------|--------|
| 2400 | -12.48 | 5.64 | -10.5 |
| 2410 | -11.94 | 6.39 | -10.39 |
| 2420 | -11.56 | 6.98 | -10.09 |
| 2430 | -12.06 | 6.23 | -10.18 |
| 2440 | -11.88 | 6.49 | -10.2 |
| 2450 | -11.13 | 7.72 | -10.02 |
| 2460 | -11.53 | 7.03 | -9.52 |
| 2470 | -11.21 | 7.56 | -9.33 |
| 2480 | -11.69 | 6.78 | -9.05 |
| 2490 | -12.15 | 6.1 | -8.71 |
| 2500 | -12.42 | 5.73 | -8.59 |

BT Directional pattern



Five、The 2D drawings



Six、Full-scale measurement report

| Full-scale measurement report | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------|---------------|--------|--------|------|--------------------|----------|-----------------|----------|-------------|------------------|-------|--------|---|---------|----------|-------|------------|--------|---------------------|----------------------|------------|--------|--------|--|--|--|
| Vendor | | Material name | | FPC | | Part NO | | Tool Number | | Cav. Number | | Unit | | Comments | | | | | | | | | | | | | |
| WTT | | Material Code | | | | Part Name | | 205G-PRO BT-FPC | | | | | | <input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS | | | | | | | | | | | | | |
| Date | | 19-Apr-24 | | | | MEASURED DIMENSION | | | | | % TOLERANCE USED | | | DISPOSITION | | | | | | ACCEPTABLE VARIANCE | | | | | | | |
| # | DIMENSION | DRAWING ZONE | + TOL. | - TOL. | NOTE | SAMPLE 1 | SAMPLE 2 | SAMPLE 3 | SAMPLE 4 | SAMPLE 5 | UPPER | LOWER | 0%-25% | 25%-50% | 50%-75% | 75%-100% | 100%+ | Re-Measure | Accept | Fix Tool | Accept With Variance | DIMEN SION | + TOL. | - TOL. | | | |
| 1 | 4.70 | | 0.15 | 0.15 | | 4.71 | 4.76 | 4.68 | 4.67 | 4.66 | 40% | 27% | | X | | | | | | | | | | | | | |
| 2 | 11.50 | | 0.15 | 0.15 | | 11.52 | 11.51 | 11.53 | 11.49 | 11.48 | 20% | 13% | X | | | | | | | | | | | | | | |
| 3 | 1.80 | | 0.30 | 0.30 | | 1.81 | 1.83 | 1.82 | 1.79 | 1.78 | 10% | 7% | X | | | | | | | | | | | | | | |
| 4 | 1.86 | | 0.30 | 0.30 | | 1.87 | 1.86 | 1.85 | 1.84 | 1.80 | 3% | 20% | X | | | | | | | | | | | | | | |
| 5 | 0.40 | | 0.05 | 0.05 | | 0.41 | 0.42 | 0.39 | 0.40 | 0.41 | 40% | 20% | | X | | | | | | | | | | | | | |
| 6 | 2.30 | | 0.05 | 0.05 | | 2.31 | 2.32 | 2.28 | 2.29 | 2.33 | 60% | 40% | | | X | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |