



# Test Report

Report No. A2260509623139

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**Company Name** DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO.,LTD.  
**shown on Report**  
**Address** NO.32, JINGGANG ZHONG ROAD, SHATIAN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P. R. CHINA

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant**

**Sample Name** Thin Film Chip Resistor (Automotive、 Anti-Sulfurized)  
**Sample Received Date** Jun. 23, 2026  
**Testing Period** Jun. 23, 2026 to Jul. 1, 2026

**Test Requested** As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

**Test Method/Test Result(s)** Please refer to the following page(s).



Approved by

Date

Jul. 2, 2026

Hill Zheng

Technical Manager

No. R294346418

Centre Testing International Group Co., Ltd.

CIT Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Conclusion

| Tested Sample    | According to standard/directive                        | Result |
|------------------|--------------------------------------------------------|--------|
| Submitted Sample | RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | PASS   |

\*\*\*\*\*

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

| CTI Sample ID | Reference Report No. - CTI Sample ID |
|---------------|--------------------------------------|
| 2.1           | A2260509623139-1.1                   |
| 3.1           | A2260509623139-1.1                   |
| 4.1           | A2260509623139-1.1                   |
| 5.1           | A2260509623139-1.1                   |

Remark:  
The samples with the reference information in the table above are non-tested in this report. According to the client's statement, the material of the samples in the column " Reference Report No. - CTI Sample ID " in the table above are the same as the " CTI Sample ID ".

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Test Method

| Tested Item(s)                            | Test Method                                                                      | Measured Equipment(s) |
|-------------------------------------------|----------------------------------------------------------------------------------|-----------------------|
| Lead (Pb)                                 | IEC 62321-5:2013                                                                 | ICP-OES               |
| Cadmium (Cd)                              | IEC 62321-5:2013                                                                 | ICP-OES               |
| Mercury (Hg)                              | IEC 62321-4:2013+AMD1:2017 CSV                                                   | ICP-OES               |
| Hexavalent Chromium (Cr(VI))              | IEC 62321-7-2:2017 and/or determination of<br>Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES        |
| Polybrominated Biphenyls (PBBs)           | IEC 62321-6:2015                                                                 | GC-MS                 |
| Polybrominated Diphenyl Ethers<br>(PBDEs) | IEC 62321-6:2015                                                                 | GC-MS                 |
| Phthalates (DBP, BBP, DEHP, DIBP)         | IEC 62321-8:2017                                                                 | GC-MS                 |
| Fluorine (F)                              | EN 14582:2016                                                                    | IC                    |
| Chlorine (Cl)                             | EN 14582:2016                                                                    | IC                    |
| Bromine (Br)                              | EN 14582:2016                                                                    | IC                    |
| Iodine (I)                                | EN 14582:2016                                                                    | IC                    |

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## Test Result(s)

| Tested Item(s)               | Result | MDL     | Limit      |
|------------------------------|--------|---------|------------|
|                              | 1.1    |         |            |
| Lead (Pb)                    | N.D.   | 2 mg/kg | 1000 mg/kg |
| Cadmium (Cd)                 | N.D.   | 2 mg/kg | 100 mg/kg  |
| Mercury (Hg)                 | N.D.   | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D.   | 8 mg/kg | 1000 mg/kg |

| Tested Item(s)                  | Result | MDL     | Limit      |
|---------------------------------|--------|---------|------------|
|                                 | 1.1    |         |            |
| Polybrominated Biphenyls (PBBs) |        |         |            |
| Monobromobiphenyl               | N.D.   | 5 mg/kg | 1000 mg/kg |
| Dibromobiphenyl                 | N.D.   | 5 mg/kg |            |
| Tribromobiphenyl                | N.D.   | 5 mg/kg |            |
| Tetrabromobiphenyl              | N.D.   | 5 mg/kg |            |
| Pentabromobiphenyl              | N.D.   | 5 mg/kg |            |
| Hexabromobiphenyl               | N.D.   | 5 mg/kg |            |
| Heptabromobiphenyl              | N.D.   | 5 mg/kg |            |
| Octabromobiphenyl               | N.D.   | 5 mg/kg |            |
| Nonabromobiphenyl               | N.D.   | 5 mg/kg |            |
| Decabromobiphenyl               | N.D.   | 5 mg/kg |            |

| Tested Item(s)                         | Result | MDL     | Limit      |
|----------------------------------------|--------|---------|------------|
|                                        | 1.1    |         |            |
| Polybrominated Diphenyl Ethers (PBDEs) |        |         |            |
| Monobromodiphenyl ether                | N.D.   | 5 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether                  | N.D.   | 5 mg/kg |            |
| Tribromodiphenyl ether                 | N.D.   | 5 mg/kg |            |
| Tetrabromodiphenyl ether               | N.D.   | 5 mg/kg |            |
| Pentabromodiphenyl ether               | N.D.   | 5 mg/kg |            |
| Hexabromodiphenyl ether                | N.D.   | 5 mg/kg |            |
| Heptabromodiphenyl ether               | N.D.   | 5 mg/kg |            |
| Octabromodiphenyl ether                | N.D.   | 5 mg/kg |            |
| Nonabromodiphenyl ether                | N.D.   | 5 mg/kg |            |
| Decabromodiphenyl ether                | N.D.   | 5 mg/kg |            |

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| Tested Item(s)                                      | Result | MDL      | Limit      |
|-----------------------------------------------------|--------|----------|------------|
|                                                     | 1.1    |          |            |
| Phthalates (DBP, BBP, DEHP, DIBP)                   |        |          |            |
| Dibutyl phthalate (DBP)<br>CAS#:84-74-2             | N.D.   | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate (BBP)<br>CAS#:85-68-7        | N.D.   | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate<br>(DEHP) CAS#:117-81-7 | N.D.   | 50 mg/kg | 1000 mg/kg |
| Diisobutyl phthalate (DIBP)<br>CAS#:84-69-5         | N.D.   | 50 mg/kg | 1000 mg/kg |

| Tested Item(s) | Result | MDL      |
|----------------|--------|----------|
|                | 1.1    |          |
| Fluorine (F)   | N.D.   | 10 mg/kg |
| Chlorine (Cl)  | N.D.   | 10 mg/kg |
| Bromine (Br)   | N.D.   | 10 mg/kg |
| Iodine (I)     | N.D.   | 10 mg/kg |

## Sample/Part Description

| No. | CTI Sample ID | Description                         |
|-----|---------------|-------------------------------------|
| 1   | 1.1           | Black resistance(Tested as a whole) |

**Remark:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

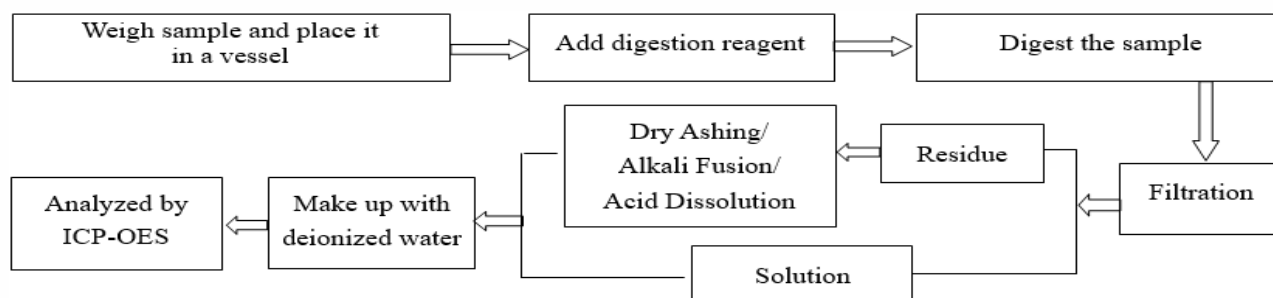
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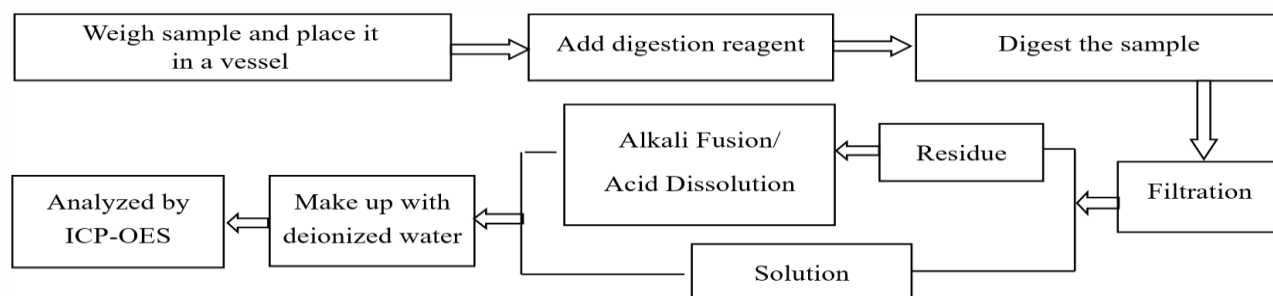
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## Test Process

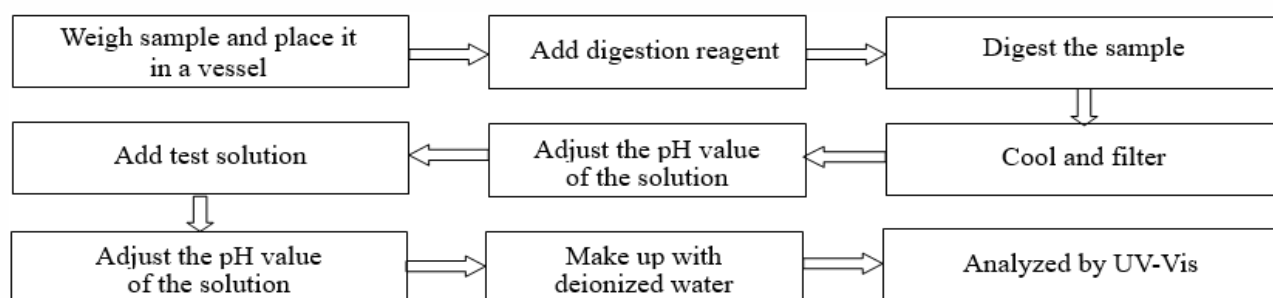
### 1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



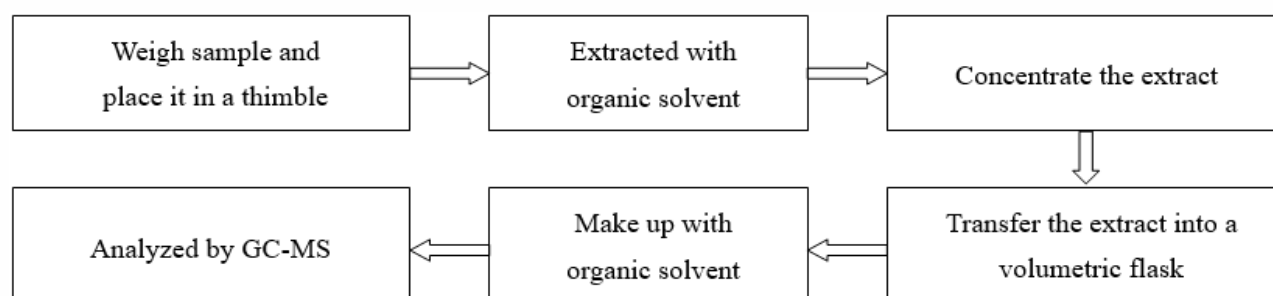
### 2. Mercury (Hg)



### 3. Hexavalent Chromium (Cr(VI))



### 4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

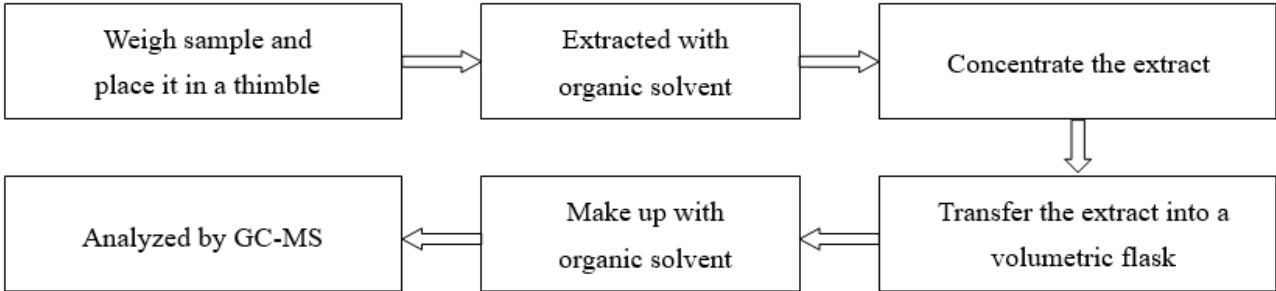


# Test Report

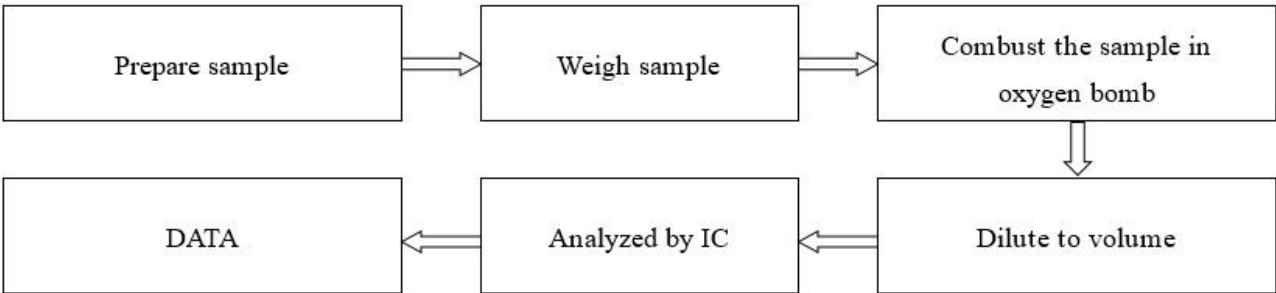
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5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



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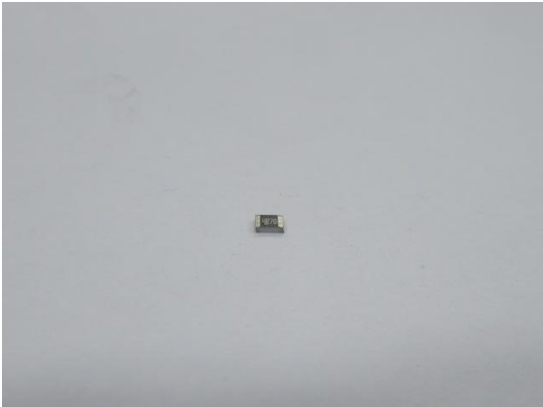
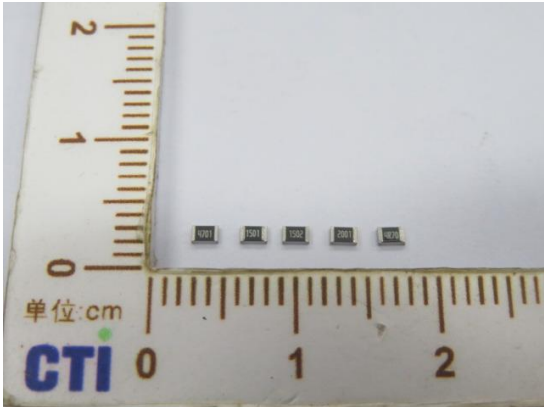
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Photo(s) of the sample(s)

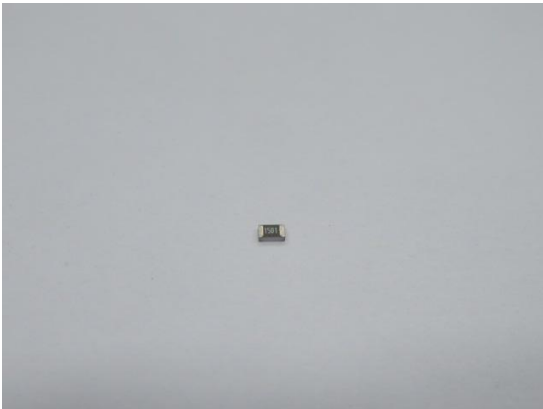
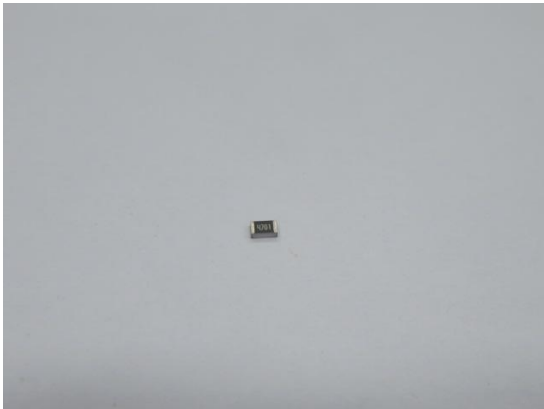
Final Product

1.1



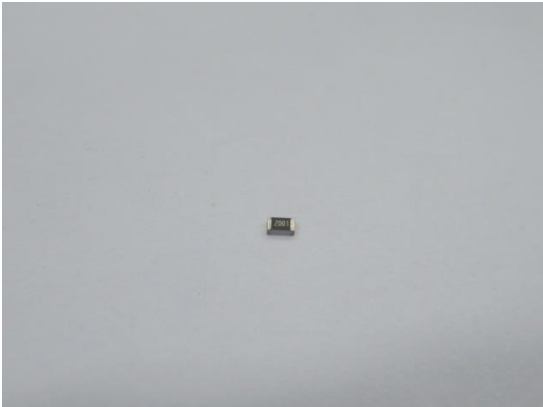
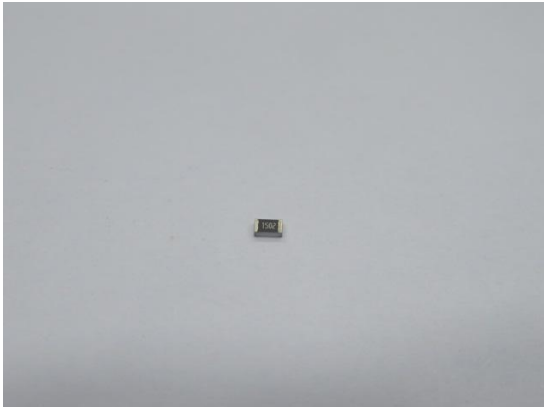
2.1 Client Reference Photo (Non tested sample)

3.1 Client Reference Photo (Non tested sample)



4.1 Client Reference Photo (Non tested sample)

5.1 Client Reference Photo (Non tested sample)



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Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

\*\*\* End of Report \*\*\*