

# Test Report

Report No. RLTJE00008569

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**Applicant** GAOMI FEI SHI LONG DA ELECTRONICS CO.,LTD

**Address** NO.2333 SHENGQUAN STREET,GAOMI CITY,SHANDONG PROVINCE

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

Sample Name 1.Metal with silver color plating 2.Diode ontology  
Part No. 1.metal 2.Epoxy resin  
Material 1 tin 2.plastic  
Package DO-41  
Sample Received Date Oct. 9, 2012  
Testing Period Oct. 9, 2012 to Oct. 12, 2012

**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) in the submitted sample(s).

## Test Method

| Tested Item(s)                         | Test Method                 | Measured Equipment(s) | MDL     |
|--|-----------------------------|-----------------------|---------|
| Lead (Pb)                              | IEC 62321:2008 Ed.1 Sec.8/9 | ICP-OES               | 2 mg/kg |
| Cadmium (Cd)                           | IEC 62321:2008 Ed.1 Sec.8/9 | ICP-OES               | 2 mg/kg |
| Mercury (Hg)                           | IEC 62321:2008 Ed.1 Sec.7   | ICP-OES               | 2 mg/kg |
| Hexavalent Chromium (Cr(VI))           | IEC 62321:2008 Ed.1 Annex C | UV-Vis                | 2 mg/kg |
|  | IEC 62321:2008 Ed.1 Annex B | UV-Vis                | /       |
| Polybrominated Biphenyls (PBBs)        | IEC 62321:2008 Ed.1 Annex A | GC-MS                 | 5 mg/kg |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321:2008 Ed.1 Annex A | GC-MS                 | 5 mg/kg |

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

Tested by Rui Li

Reviewed by Andy Chang

Approved by Allen Wang

Date Oct. 12, 2012

Allen Wang

Technical Manager

No. 14286288

Centre Testing International (Tianjin) Co., Ltd.

No.99, Xianfeng East Road, Dongli District, Tianjin, China

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**Test Result(s)**

| Tested Item(s)               | Result   |          |
|------------------------------|----------|----------|
|                              | Sample 1 | Sample 2 |
| Lead (Pb)                    | N.D.     | N.D.     |
| Cadmium (Cd)                 | N.D.     | N.D.     |
| Mercury (Hg)                 | N.D.     | N.D.     |
| Hexavalent Chromium (Cr(VI)) | Negative | N.D.     |

| Tested Item(s)                               | Result   |
|--|----------|
|  | Sample 2 |
| <b>Polybrominated Biphenyls(PBBs)</b>        |          |
| Monobromobiphenyl                            | N.D.     |
| Dibromobiphenyl                              | N.D.     |
| Tribromobiphenyl                             | N.D.     |
| Tetrabromobiphenyl                           | N.D.     |
| Pentabromobiphenyl                           | N.D.     |
| Hexabromobiphenyl                            | N.D.     |
| Heptabromobiphenyl                           | N.D.     |
| Octabromobiphenyl                            | N.D.     |
| Nonabromobiphenyl                            | N.D.     |
| Decabromobiphenyl                            | N.D.     |
| <b>Polybrominated Diphenyl Ethers(PBDEs)</b> |          |
| Monobromodiphenyl ether                      | N.D.     |
| Dibromodiphenyl ether                        | N.D.     |
| Tribromodiphenyl ether                       | N.D.     |
| Tetrabromodiphenyl ether                     | N.D.     |
| Pentabromodiphenyl ether                     | N.D.     |
| Hexabromodiphenyl ether                      | N.D.     |
| Heptabromodiphenyl ether                     | N.D.     |
| Octabromodiphenyl ether                      | N.D.     |
| Nonabromodiphenyl ether                      | N.D.     |
| Decabromodiphenyl ether                      | N.D.     |

**Tested Sample/Part Description** 1.Metal with silvery plating 2.Black resin

**Note:** The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (&lt;MDL)

-mg/kg = ppm = parts per million

 -Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area used.

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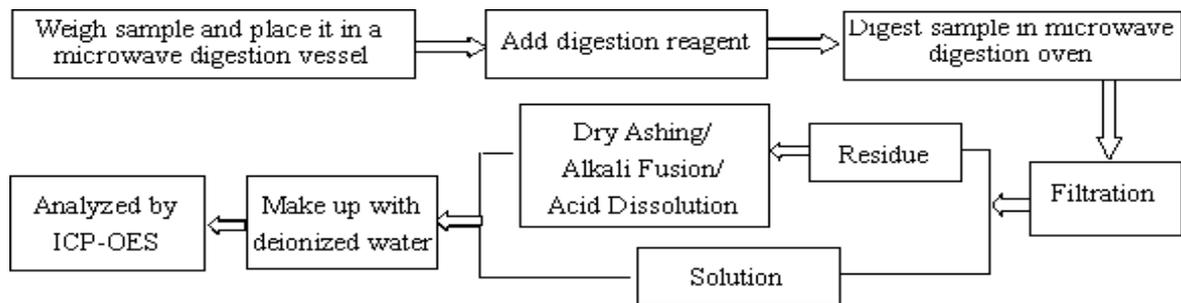
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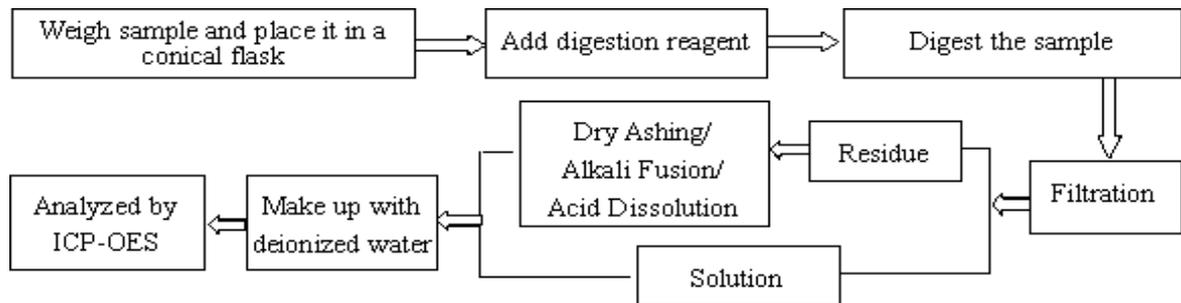
**Remark:** According to client declaration, the submitted sample's package DO-15;R-1;17-02;DO-201AE; DO-201AD;P600;SOD-123;SMA(压扁式);SMA(框架式);SMB(压扁式);SMB(框架式);SMC; SMD;AUTO;AUTO-LINE;BLOCK;MBS and the tested sample's package DO-41 are made from the same material.

## Test Process

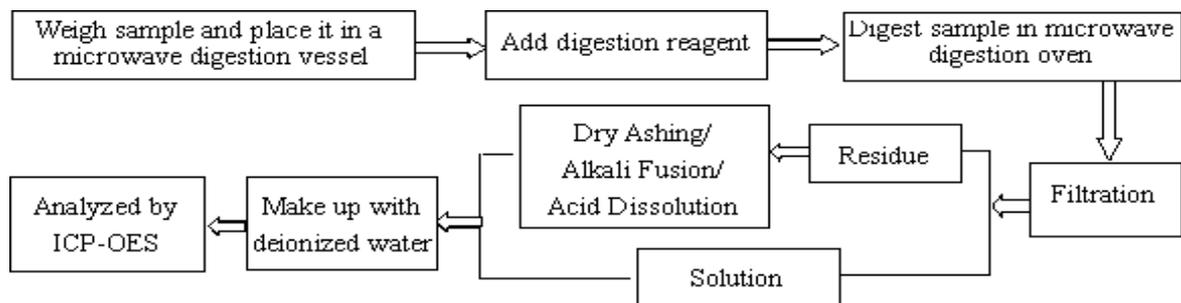
### 1.1) Lead(Pb), Cadmium(Cd)



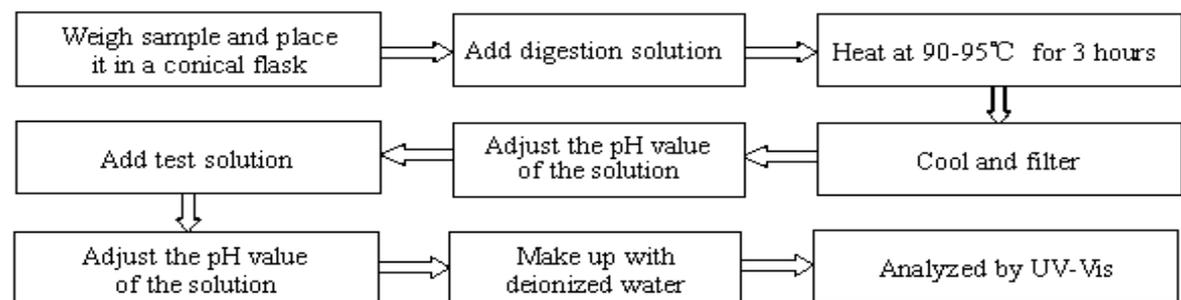
### 1.2) Lead(Pb), Cadmium(Cd)



## 2. Mercury(Hg)



### 3.1) Hexavalent Chromium(Cr(VI))

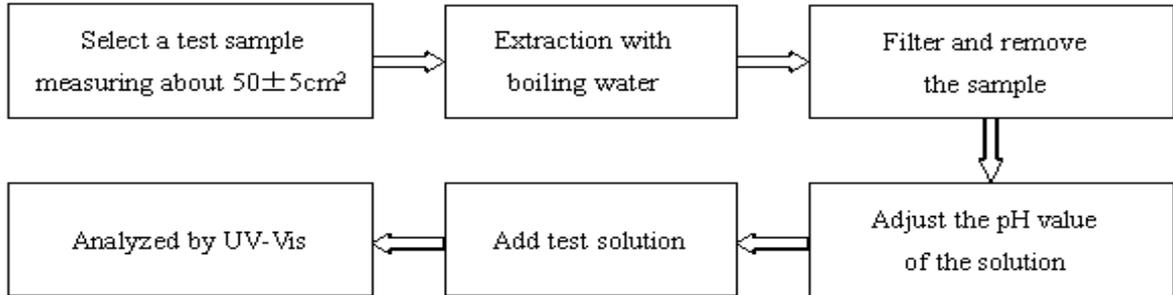


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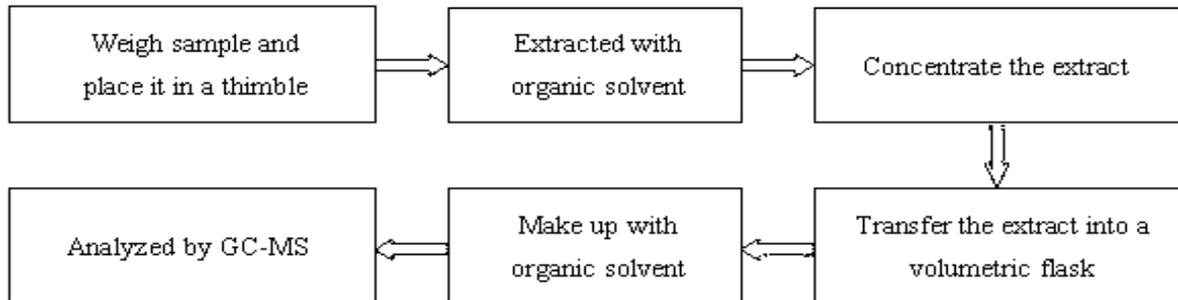
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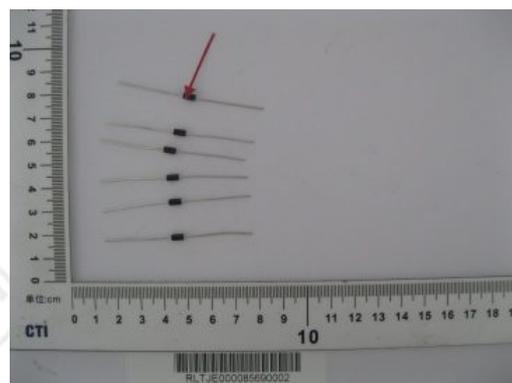
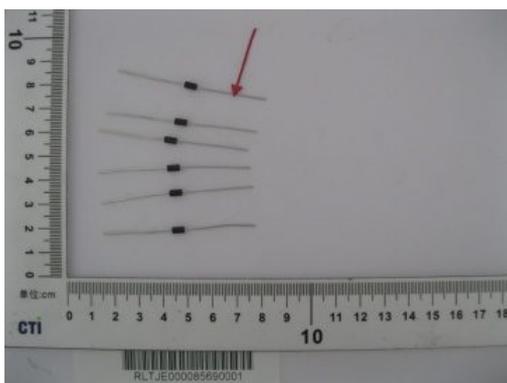
## 3.2) Hexavalent Chromium(Cr(VI))



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



## Photo(s) of the sample(s)



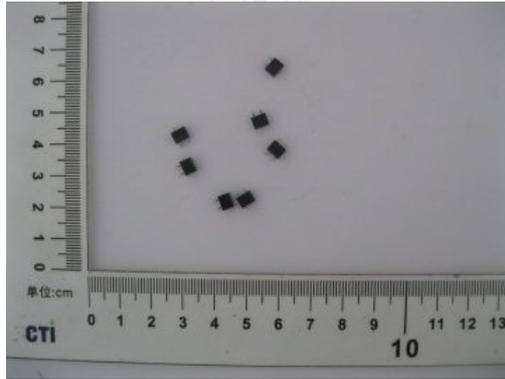
DO-41

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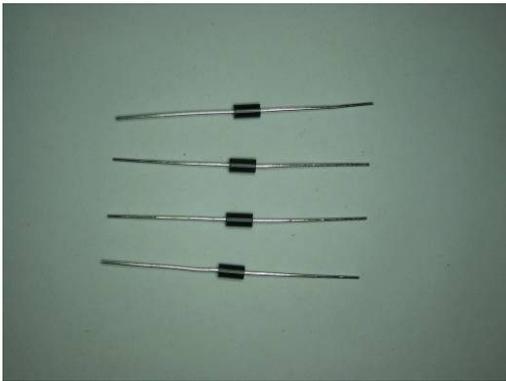
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## Photo(s) of the sample(s)



MBS

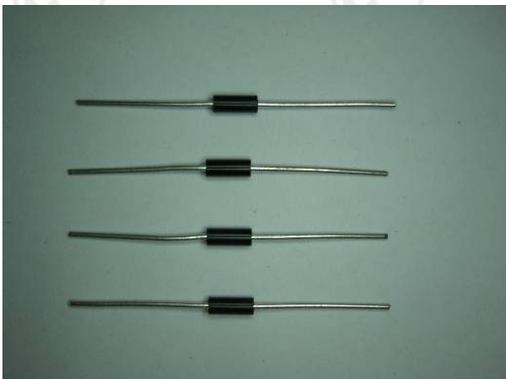
At the request of client, the following photos are provided by applicant and for reference only.



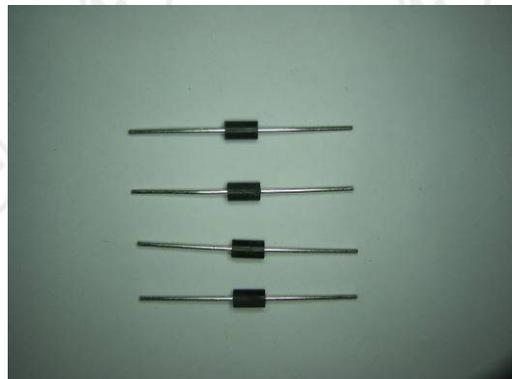
DO-15



R-1



17-02



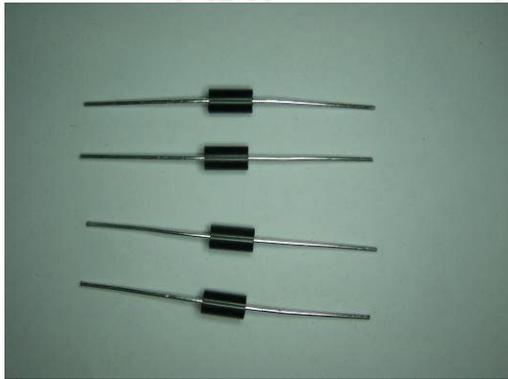
DO-201AE

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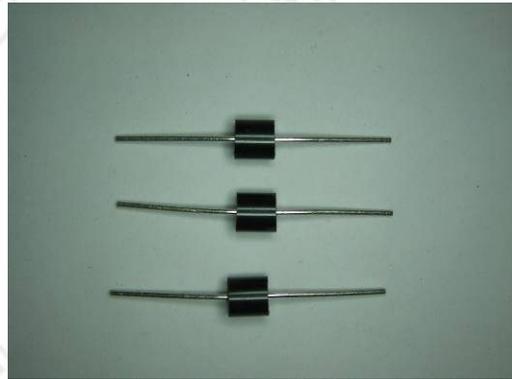
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## Photo(s) of the sample(s)



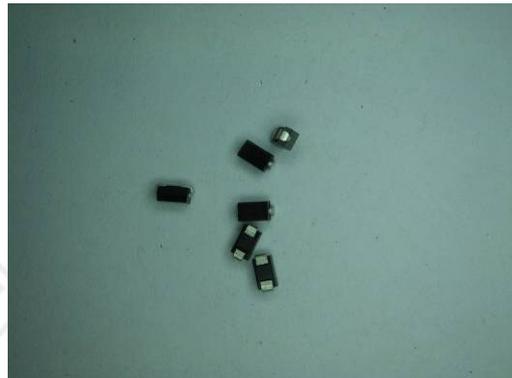
DO-201AD



P600



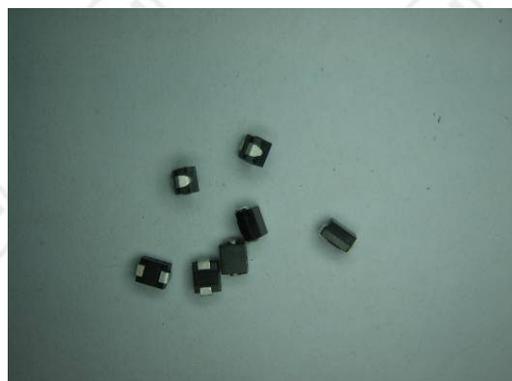
SOD-123



SMA(压扁式)



SMA(框架式)



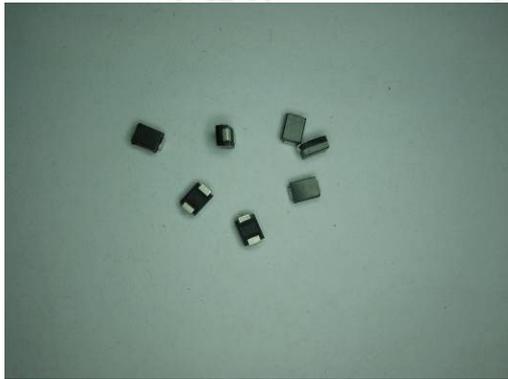
SMB(压扁式)

# Test Report

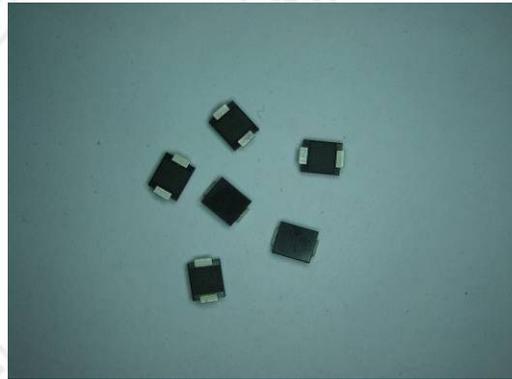
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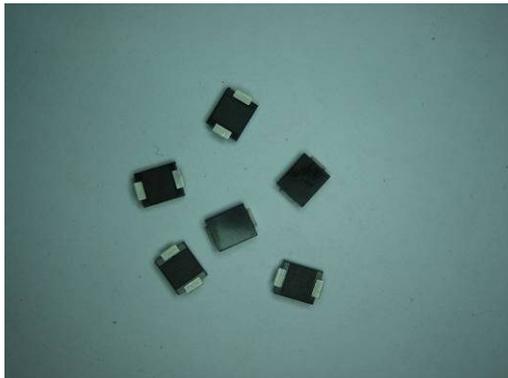
## Photo(s) of the sample(s)



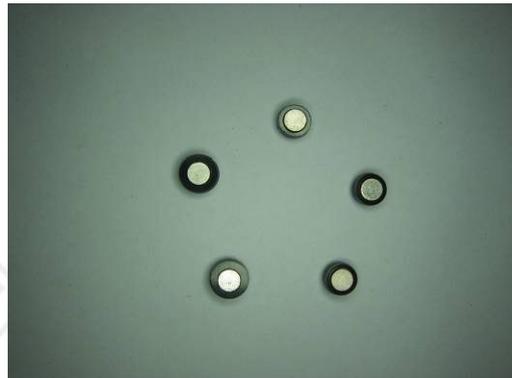
SMB(框架式)



SMC



SMD



AUTO



AUTO-LINE



BLOCK

\*\*\* End of report \*\*\*

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