

## Test Report

No.: GZ0706085983/CHEM

Date: JUN 25, 2007

Page 1 of 4

ELECSOUND ELECTRONICS COMPANY LIMITED  
24A, JIAFUGE, CAIFU BUILDING, CAITIAN ROAD, FUTIAN, SHENZHEN, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as CERAMIC CAPACITOR

SGS Ref No. : SZ10307090-2.2  
Sample Receiving Date : JUN 19, 2007  
Testing Period : JUN 19, 2007 TO JUN 25, 2007

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.


Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by AAS & ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Remark : As requested by client, the test of No.1 was conducted as whole / part sample, for the sample can't be disjointed.

Signed for and on behalf of  
SGS-CSTC Ltd.



Jiang YongPing, Terry  
Sr. Engineer



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Page 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	No.2	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	N.D.	2	100
Lead (Pb)	(2)	14	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	---	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	---	Negative	See Note 5	#
<b>Sum of PBBs</b>		<b>N.D.</b>	<b>---</b>	<b>-</b>	<b>1000</b>
Monobromobiphenyl		N.D.	---	5	
Dibromobiphenyl		N.D.	---	5	
Tribromobiphenyl		N.D.	---	5	
Tetrabromobiphenyl		N.D.	---	5	
Pentabromobiphenyl		N.D.	---	5	
Hexabromobiphenyl		N.D.	---	5	
Heptabromobiphenyl		N.D.	---	5	
Octabromobiphenyl		N.D.	---	5	
Nonabromobiphenyl		N.D.	---	5	
Decabromobiphenyl		N.D.	---	5	
<b>Sum of PBDEs (Mono to Nona)(Note 4)</b>	(5)	<b>N.D.</b>	<b>---</b>	<b>-</b>	<b>1000</b>
Monobromodiphenyl ether		N.D.	---	5	
Dibromodiphenyl ether		N.D.	---	5	
Tribromodiphenyl ether		N.D.	---	5	
Tetrabromodiphenyl ether		N.D.	---	5	
Pentabromodiphenyl ether		N.D.	---	5	
Hexabromodiphenyl ether		N.D.	---	5	
Heptabromodiphenyl ether		N.D.	---	5	
Octabromodiphenyl ether		N.D.	---	5	
Nonabromodiphenyl ether		N.D.	---	5	
Decabromodiphenyl ether		N.D.	---	5	
<b>Sum of PBDEs (Mono to Deca)</b>		<b>N.D.</b>	<b>---</b>	<b>-</b>	<b>-</b>

### Test Part Description:

No.1 Yellow body w/ brown printing (mixed)

No.2 Silvery metal pin

Note : 1. mg/kg = ppm

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

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. **Spot-test:**

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

**Boiling-water-extraction:**

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

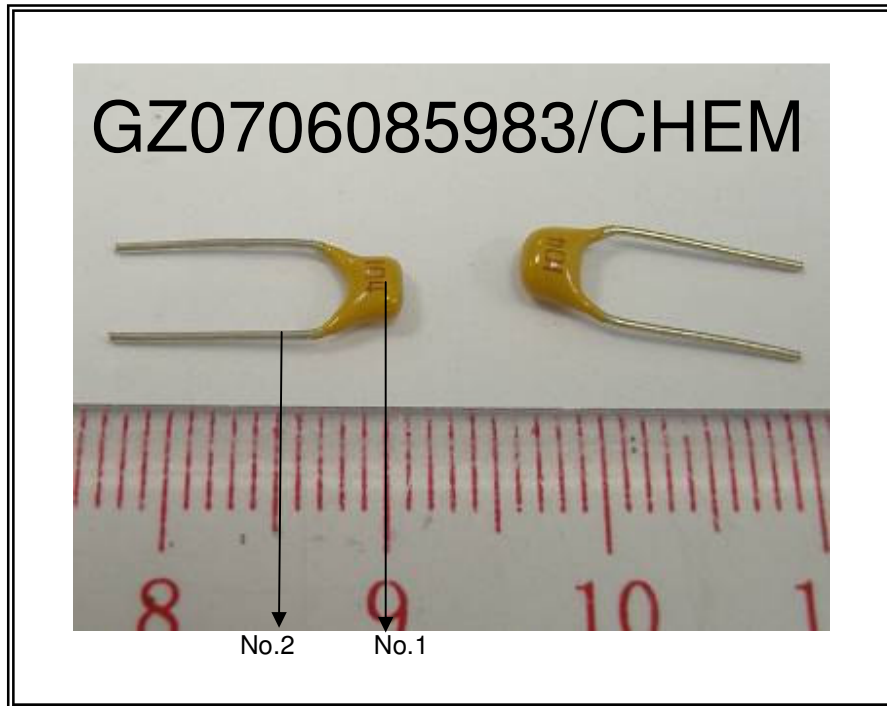
6. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

7. “-“ = Not regulated

8. “-“-“ = Not Conducted

Sample photo :



SGS authenticate the photo on original report only

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