

## Test Report

No. : CE/2008/63108

Date : 2008/06/16

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DC COMPONENTS CO., LTD.

6F, NO. 308, SEC. 1, DONGSHAN RD., TAICHUNG, TAIWAN, R. O. C.



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

Sample Description : GLASS RECTIFIER  
Style/Item No. : DO-34, DO-35, DO-41G, DL-35, DL-41, 0805G, 1206G,  
0603G, MINI MELF, MICRO MELF, QUADRO MELF  
Sample Receiving Date : 2008/06/11  
Testing Period : 2008/06/11 TO 2008/06/16

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

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.
- (6) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

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

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	170000	n.d.	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)	---	Negative	See Note 4
<b>Sum of PBBs</b>	(6)	n.d.	---	-
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
Sum of PBDEs (Mono to Nona)		n.d.	---	-
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>	n.d.	---	-	

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### TEST PART DESCRIPTION:

NO.1 : BODY  
NO.2 : SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER)

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(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 Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

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.

5. "-" = Not Regulated

6. "---" = Not Conducted

7. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing.  
The above result(s) was/were only given as the informality value.

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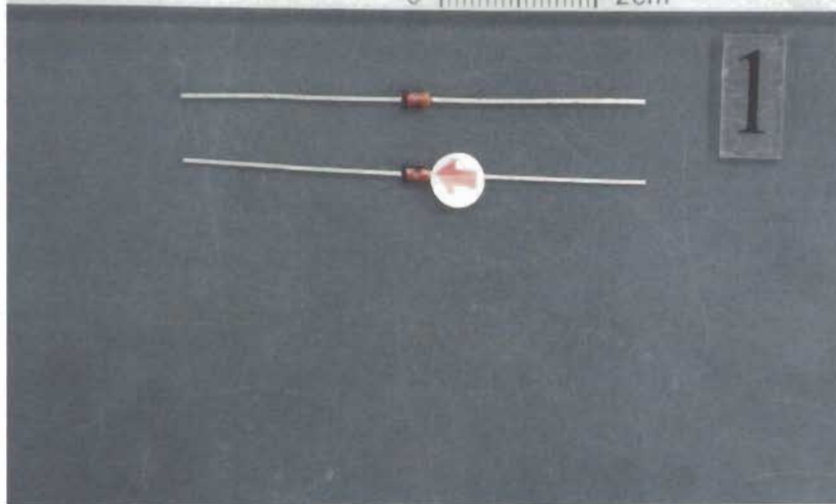
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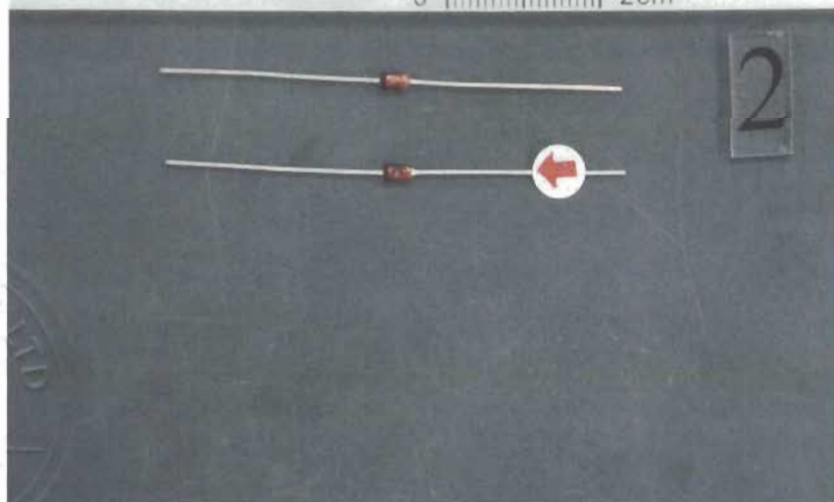
### CE / 2008 / 63108

0 1 2 cm



### CE / 2008 / 63108

0 1 2 cm



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

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