

# Test Report

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Date : 2007/05/15

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CHI LI TEH CO., LTD.

7F., NO. 3., LANE. 166, CHANG YANG RD., NANKANG DISTRICT,

115 TAIPEI, TAIWAN, R. O. C.




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

Sample Description	:	DISC CERAMIC CAPACITOR
Style/Item No.	:	SERIES SPECIFICATION
Buyer/Order No.	:	CHIN-JYH-WOEI CO., LTD.
Sample Receiving Date	:	2007/2/9
Testing Period	:	2007/2/9 TO 2007/2/16

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<b>Test Requested</b>	:	In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
<b>Test Method</b>	:	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-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 / Colorimetric Method.
		(6) Determination of PBB and PBDE by GC/MS.
<b>Test Result(s)</b>	:	Please refer to next page(s).

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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

Test Item (s):	Method (Refer to)	Result				MDL
		No.1	No.2	No.3	No.4	
Cadmium (Cd)	(1)	n.d.	n.d.	n.d.	---	2
Lead (Pb)	(2)	14.3	14.9	15.5	---	2
Mercury (Hg)	(3)	n.d.	n.d.	n.d.	---	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	n.d.	---	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)	---	---	---	Negative	See Note 5
<b>Sum of PBBs</b>	(6)	n.d.	n.d.	---	---	-
Monobromobiphenyl		n.d.	n.d.	---	---	5
Dibromobiphenyl		n.d.	n.d.	---	---	5
Tribromobiphenyl		n.d.	n.d.	---	---	5
Tetrabromobiphenyl		n.d.	n.d.	---	---	5
Pentabromobiphenyl		n.d.	n.d.	---	---	5
Hexabromobiphenyl		n.d.	n.d.	---	---	5
Heptabromobiphenyl		n.d.	n.d.	---	---	5
Octabromobiphenyl		n.d.	n.d.	---	---	5
Nonabromobiphenyl		n.d.	n.d.	---	---	5
Decabromobiphenyl		n.d.	n.d.	---	---	5
<b>Sum of PBDEs (Mono to Nona) (Note 4)</b>		n.d.	n.d.	---	---	-
Monobromobiphenyl ether		n.d.	n.d.	---	---	5
Dibromobiphenyl ether		n.d.	n.d.	---	---	5
Tribromobiphenyl ether		n.d.	n.d.	---	---	5
Tetrabromobiphenyl ether		n.d.	n.d.	---	---	5
Pentabromobiphenyl ether		n.d.	n.d.	---	---	5
Hexabromobiphenyl ether		n.d.	n.d.	---	---	5
Heptabromobiphenyl ether		n.d.	n.d.	---	---	5
Octabromobiphenyl ether		n.d.	n.d.	---	---	5
Nonabromobiphenyl ether		n.d.	n.d.	---	---	5
Decabromobiphenyl ether		n.d.	n.d.	---	---	5
<b>Sum of PBDEs (Mono to Deca)</b>		n.d.	n.d.	---	---	-

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## TEST PART DESCRIPTION:

NO.1	:	MIXED ALL PARTS OF BODY
NO.2	:	MIXED ALL PARTS OF BODY
NO.3	:	SILVER COLORED METAL PIN
NO.4	:	PLATING LAYER OF SILVER COLORED METAL PIN

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. 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.

6. "---" = Not Conducted

7. "-" = Not Regulated

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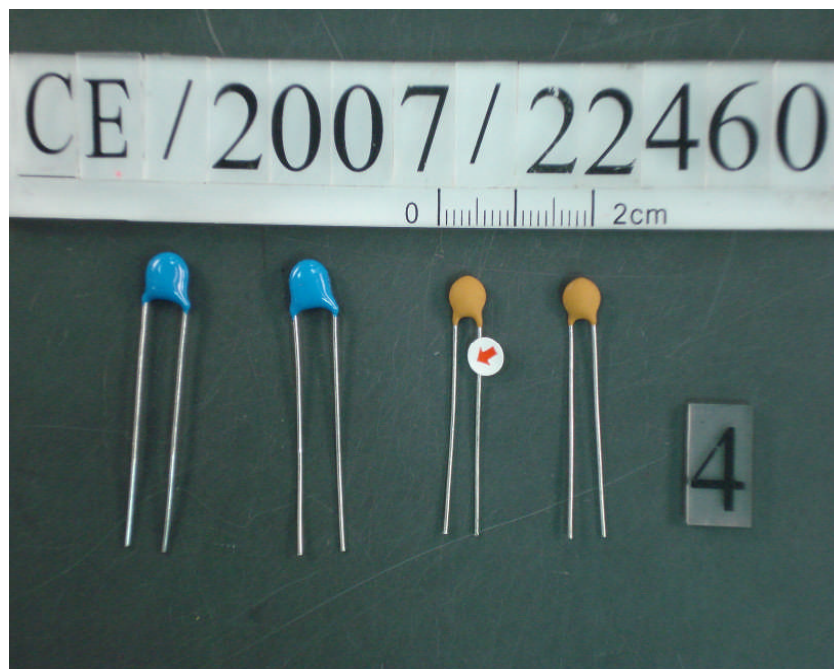
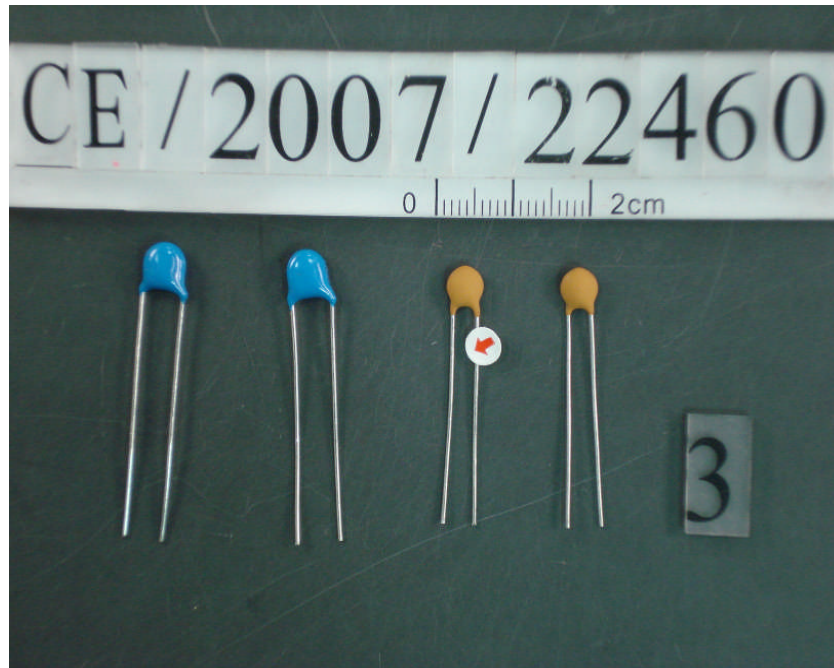
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