



Test Report

No. EC405737001

Date: Mar 20 2007

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NAKAGAWA ELECTRONICS (SUZHOU) LIMITED
NO.39, MIDDLE SUHONG ROAD
SUZHOU INDUSTRIAL PARK
JIANGSU
CHINA

The following sample was submitted and identified on behalf of the client as :
CRYSTAL UNIT

SGS Job No. : 1060243
Style No : HC-49S/ HC-49SS
Country of Origin : CHINA
Country of Destination : ANY
Date of Sample(s) Received : MAR 14 2007
Testing Period : MAR 14 - 20 2007

Test Requested/
Test Method :

- In accordance with RoHS Directive 2002/95/EC, and its amendment directives.
- With reference to EPA Method 3051A/ 3052 for Cadmium, Lead and Mercury contents. Analysis was performed by ICP.
- With reference to IEC 62321 (Ed. 1) 111/54/CDV for Cadmium, Lead and Mercury contents of metal sample. Analysis was performed by ICP/ AAS.
- With reference to EPA Method 3060A & 7196A for Hexavalent Chromium content. Analysis was performed by colorimetric method (UV-VIS).
- With reference to IEC 62321 (Ed. 1) 111/54/CDV - Section 8 for the presence of Hexavalent Chromium on the metal sample. Analysis was performed by spot-test/ boiling-water-extraction.
- With reference to EPA Method 3550C/ 3540C for PBBs/ PBDEs contents. Analysis was performed by GC-MS.

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Test Report

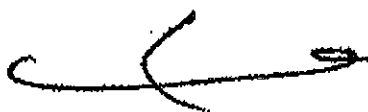
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Test Results : Please refer to next page.
Conclusion : - Based on the performed tests on submitted sample, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS Hong Kong Ltd.



Wan Chi Wai Leo
Technical Manager

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Test Results:

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

	<u>1</u>	<u>2</u>	<u>MDL</u>	<u>Limit</u>
Cadmium (Cd)	n.d.	n.d.	2	100
Lead (Pb)	24	48	2 (5*)	1000
Mercury (Hg)	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI) by colorimetric method	n.d.	--	2	1000
Hexavalent Chromium (CrVI) by spot-test/boiling-water-extraction	--	Negative		#
Sum of PBBs (Mono to Deca)	n.d.	n.d.	-	1000
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	
Sum of PBDEs (Note 4)	n.d.	n.d.	-	1000
Sum of PBDEs (Mono to Deca)	n.d.	n.d.	-	
Monobromodiphenyl ether	n.d.	n.d.	5	
Dibromodiphenyl ether	n.d.	n.d.	5	
Tribromodiphenyl ether	n.d.	n.d.	5	
Tetrabromodiphenyl ether	n.d.	n.d.	5	
Pentabromodiphenyl ether	n.d.	n.d.	5	
Hexabromodiphenyl ether	n.d.	n.d.	5	
Heptabromodiphenyl ether	n.d.	n.d.	5	
Octabromodiphenyl ether	n.d.	n.d.	5	
Nonabromodiphenyl ether	n.d.	n.d.	5	
Decabromodiphenyl ether	n.d.	n.d.	5	

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Note:

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) n.d. = Not Detected
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (5) Negative = Absence of CrVI coating
Positive = Presence of CrVI coating

Spot-test:

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

Boiling-water-extraction:

Positive : detected concentration of solution 0.02 mg/kg with 50 sq. cm sample surface area.

- (6) # = Positive indicates the presence of CrVI on the tested areas and result be regarded as not compliance with RoHS requirement.
Negative indicates the absence of CrVI on the tested areas and result be regarded as compliance with RoHS requirement.
- (7) * = MDL for metal sample
- (8) - = Not Regulated
- (9) -- = Not Conducted

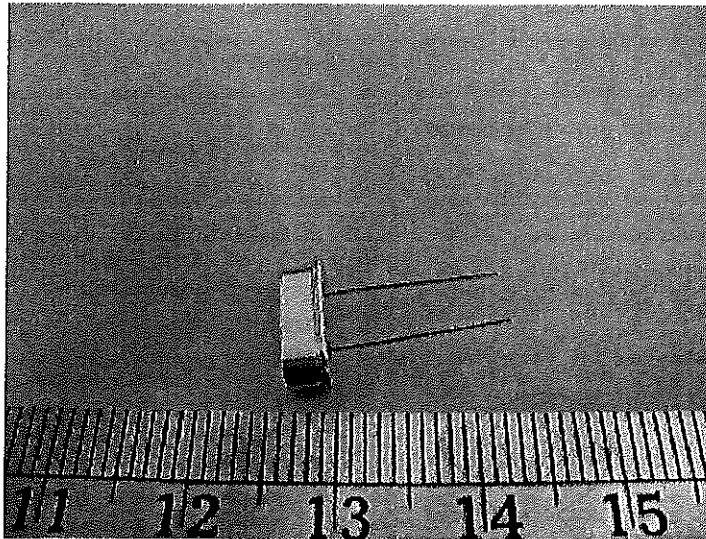
Sample Description

- 1 Silvery Metal w/ Transparent Crystal w/ Green Glass (HC-49S/HC-49SS Oscillator Body)
- 2 Silvery Metal (HC-49S/HC-49SS Oscillator Pin)

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Sample photo:

EC405737001 (Sample 1-2)



SGS authenticate the photo on original report only

*** End Of Report ***

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