

Test Report

No. SH7019203/ CHEM Date: Mar. 7, 2007

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NANTONG HUADA MICROELECTRONICS GROUP CO., LTD
NO.99 ZILANG ROAD NANTONG CITY JIANGSU CHINA

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

Sample Name : TO-92 ENCAPSULATION PRODUCT
SGS Ref No. : 10276727-1
Part No. : TO-92 ENCAPSULATION PRODUCT


Sample Receiving Date : Mar.02, 2007
Testing Period : Mar.02- 07, 2007

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

Test Method : (1) With reference to IEC 62321 Ed 111/54/CDV for Cadmium content
Analysis was performed by ICP and AAS.
(2) With reference to IEC 62321 Ed 111/54/CDV for Lead content
Analysis was performed by ICP and AAS.
(3) With reference to IEC 62321 Ed 111/54/CDV for Mercury content
Analysis was performed by ICP.
(4) With reference to IEC 62321 Ed 111/54/CDV for Hexavalent Chromium by
spot test / Colorimetric Method.
(5) With reference to IEC 62321 Ed 111/54/CDV for PBBs / PBDEs Content.
Analysis was performed by GC/MS

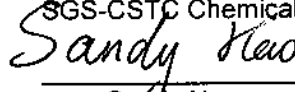
Test Results : Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Ella Zhang
Sr. Section Head

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

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

Test Item(s):	Method (refer to)	1	2	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	ND	2	100
Lead (Pb)	(2)	ND	ND	2	1000
Mercury (Hg)	(3)	ND	ND	2	1000
Hexavalent Chromium (CrVI)	(4)	ND	---	2	1000
Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(4)	---	Negative	See Note (5)	#
Sum of PBBs	(5)	ND	---	-	1000
Monobromobiphenyl		ND	---	5	-
Dibromobiphenyl		ND	---	5	-
Tribromobiphenyl		ND	---	5	-
Tetrabromobiphenyl		ND	---	5	-
Hexabromobiphenyl		ND	---	5	-
Pentabromobiphenyl		ND	---	5	-
Heptabromobiphenyl		ND	---	5	-
Octabromobiphenyl		ND	---	5	-
Nonabromobiphenyl		ND	---	5	-
Decabromobiphenyl		ND	---	5	-
Sum of PBDEs (Note 4)		ND	---	-	1000
Monobromodiphenyl ether		ND	---	5	-
Dibromodiphenyl ether		ND	---	5	-
Tribromodiphenyl ether		ND	---	5	-
Tetrabromodiphenyl ether		ND	---	5	-
Pentabromodiphenyl ether		ND	---	5	-
Hexabromodiphenyl ether		ND	---	5	-
Heptabromodiphenyl ether		ND	---	5	-
Octabromodiphenyl ether		ND	---	5	-
Nonabromodiphenyl ether		ND	---	5	-
Decabromodiphenyl ether	ND	---	5	-	
Sum of PBDEs (Mono to Deca)	ND	---	-	-	

Test Part Description:

1. Black plastic part
2. Silvery metal part

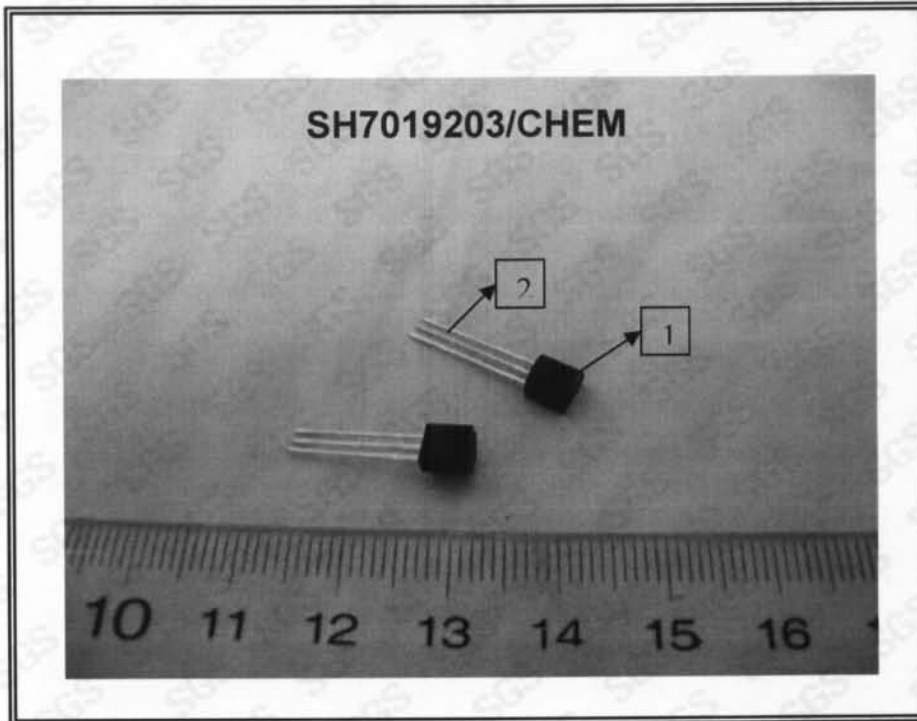
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Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (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 cm² sample surface area.
- (6) # = Positive indicates the presence of Hexavalent Chromium 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
- (9) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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