









Report No. A2220135929101001R1 Page 1 of 7

Company Name JIANGSU SEMICON CHAMPION MICROELECTRONICS CO.,LTD

shown on Report

Address NO.55 KANGHUA ROAD, HAI' AN ECONOMIC DEVELOPMENT AREA, JIANGSU

PROVINCE

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name Traic/Thyristor (finished product)

Part No. BTA series
Sample Received Date Apr. 11, 2022

Testing Period Apr. 11, 2022 to Apr. 18, 2022

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),

Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs),

Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP,

DIBP) in the submitted sample(s).

Test Method/Test Result(s) Please refer to the following page(s).

......

Conclusion

Tested SampleAccording to standard/directiveResultSubmitted SampleRoHS Directive 2011/65/EU with amendment (EU) 2015/863Pass

Pass means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Tested by

by

an Re

Reviewed by

Date

Shirong Gar

Apr. 22, 2022

Sha Chen

Technical Manager

nternational (Ningbo) Co.,Ltd.

No. R465023152

1-2F, Eastern Factory, No.76, Jinghua Road, High-Tech Zone, Ningbo, Zhejiang, China



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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis	
	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013		
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02521-0.2015		
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	

Test Result(s)

Tested Item(s)	Result		MDI	Limit
	001	002	MDL	Lillit
Lead (Pb)	10044 mg/kg ^{#1}	29 mg/kg	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
	N.D.		8 mg/kg	
Hexavalent Chromium (Cr(VI))		N.D.▼	$0.10 \ \mu g/cm^2$	1000 mg/kg
		N.D.	(LOQ)	

Tested Item(s)	Result	MDL	Limit	
	001	MIDL		
Polybrominated Biphenyls(PBBs)				
Monobromobiphenyl	N.D.	5 mg/kg		
Dibromobiphenyl	N.D.	5 mg/kg		
Tribromobiphenyl	N.D.	5 mg/kg	1000 4	
Tetrabromobiphenyl	N.D.	5 mg/kg		
Pentabromobiphenyl	N.D.	5 mg/kg		
Hexabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg		
Octabromobiphenyl	N.D.	5 mg/kg	1	
Nonabromobiphenyl	N.D.	5 mg/kg		
Decabromobiphenyl	N.D.	5 mg/kg		



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Tested Item(s)	Result	MDL	Limit	
	001	MIDL	Lillit	
Polybrominated Diphenyl Ethers	Polybrominated Diphenyl Ethers(PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg		
Dibromodiphenyl ether	N.D.	5 mg/kg		
Tribromodiphenyl ether	N.D.	5 mg/kg		
Tetrabromodiphenyl ether	N.D.	5 mg/kg		
Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 ma/ka	
Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg		
Octabromodiphenyl ether	N.D.	5 mg/kg		
Nonabromodiphenyl ether	N.D.	5 mg/kg		
Decabromodiphenyl ether	N.D.	5 mg/kg		

Togtod Itom(c)	Result	MDL	Limit
Tested Item(s)	001		
Phthalates(DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Benzylbutyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-2-ethylhexyl phthalate(DEHP)	ND	50 m a/lr a	1000 m a/lra
CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

001 Black body(Tested as a whole)

002 Metal with silvery plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- - ∇ The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μ g/cm². The coating is considered a non-Cr(VI) based coating.
- #1=According to the client's statement, lead mainly comes from the high melting temperature type s



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olders.Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by we ight or more lead) is exempted from the restriction, with reference to EU Directive 2011/65/EU annex III Exemption Applications 7(a).

Note:

This testing report added "Conclusion, Limit and Exempt" and revised "Part No." based on the original report of No. A2220135929101001. This testing report displaces the original one which was invalid since the date of this testing report released.

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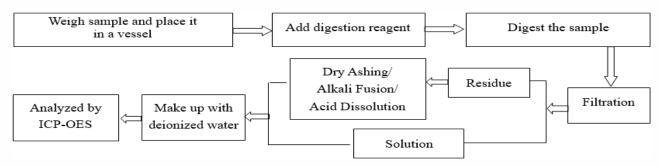
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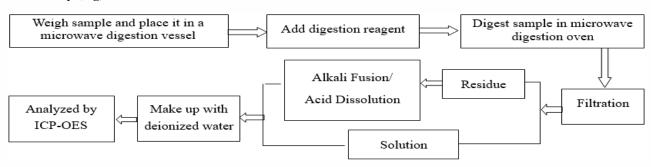
X 1080 CO.17%

Test Process

1. Lead (Pb), Cadmium (Cd), Chromium(Cr)

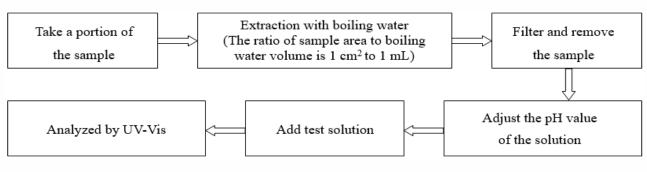


2. Mercury (Hg)

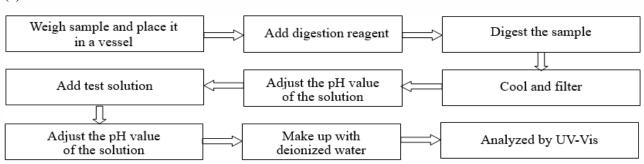


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



(2) IEC 62321-7-2:2017

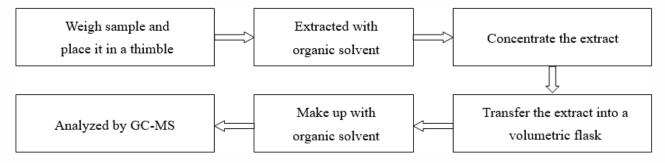




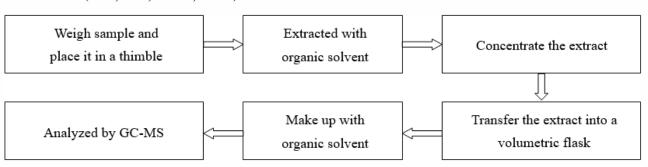
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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)



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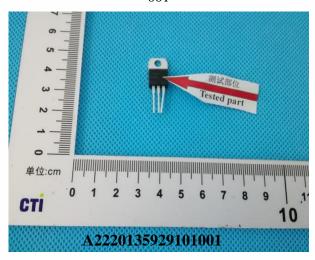


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Photo(s) of the sample(s)

001



002



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***