



# Test Report

Report No. A225017659110203

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**Company Name** JANGSU MICRO COMMERCIAL COMPONENTS CO.,LTD  
**shown on Report**  
**Address** NO.6 HEYE WEST ROAD,HANJANG DISTRICT, YANGZHOU, CHINA

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

Sample Name Module  
Sample Received Date Mar. 21, 2025  
Testing Period Mar. 21, 2025 to Apr. 25, 2025

**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).



Approved by

*Chen Kaimin*

Date

Apr. 27, 2025

Chen kaimin  
Lab Manager

No. R794241979

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China

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**Conclusion**

<b>Tested Sample</b>	<b>According to standard/directive</b>	<b>Result</b>
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

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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.

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

CTI Sample ID	Reference Report No. - CTI Sample ID.
6.1	A2250176591102-3.1
6.2	A2250176591102-3.2
9.1	A2250176591102-3.1
9.2	A2250176591102-3.2

Remark:

The samples with the reference information in the table above are non-tested in this report. According to the applicant's statement, the material of the samples in the column "Reference Report No. - CTI Sample ID " in the table above are the same as the " CTI Sample ID ".

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## Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
	Refer to IEC 62321-5:2013	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
	Refer to IEC 62321-5:2013	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
	Refer to IEC 62321-4:2013+AMD1:2017 CSV	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-12:2023	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS

## Test Result(s)

Tested Item(s)	Result			MDL	Limit
	1	2	3.1		
Lead (Pb)	10 mg/kg	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	--	--	N.D. ▼	0.10 µg/cm <sup>2</sup> (LOQ)	1000 mg/kg
	N.D.	N.D.	--	8 mg/kg	1000 mg/kg

Tested Item(s)	Result			MDL	Limit
	3.2	4.1	4.2		
Lead (Pb)	N.D.	14 mg/kg	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▼	N.D. ▼	N.D. ▼	0.10 µg/cm <sup>2</sup> (LOQ)	1000 mg/kg
	--	--	--	8 mg/kg	1000 mg/kg

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Tested Item(s)	Result			MDL	Limit
	5.1	5.2	7		
Lead (Pb)	N.D.	36103 mg/kg*	50994 mg/kg* <sup>1</sup>	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.▼	N.D.▼	--	0.10 µg/cm <sup>2</sup> (LOQ)	1000 mg/kg
	--	--	N.D.	8 mg/kg	1000 mg/kg

Tested Item(s)	Result			MDL	Limit
	8	10	11		
Lead (Pb)	66 mg/kg	N.D.	914708 mg/kg* <sup>2</sup>	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.▼	--	N.D.▼	0.10 µg/cm <sup>2</sup> (LOQ)	1000 mg/kg
	--	N.D.	--	8 mg/kg	1000 mg/kg

Tested Item(s)	Result			MDL	Limit
	1	2	7		
<b>Polybrominated Biphenyls(PBBs)</b>					
Monobromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	1000 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Tribromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Hexabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Heptabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Octabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	
Decabromobiphenyl	N.D.	N.D.	N.D.	25 mg/kg	

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Tested Item(s)	Result		MDL	Limit
	10			
<b>Polybrominated Biphenyls(PBBs)</b>				
Monobromobiphenyl	N.D.		25 mg/kg	1000 mg/kg
Dibromobiphenyl	N.D.		25 mg/kg	
Tribromobiphenyl	N.D.		25 mg/kg	
Tetrabromobiphenyl	N.D.		25 mg/kg	
Pentabromobiphenyl	N.D.		25 mg/kg	
Hexabromobiphenyl	N.D.		25 mg/kg	
Heptabromobiphenyl	N.D.		25 mg/kg	
Octabromobiphenyl	N.D.		25 mg/kg	
Nonabromobiphenyl	N.D.		25 mg/kg	
Decabromobiphenyl	N.D.		25 mg/kg	

Tested Item(s)	Result			MDL	Limit
	1	2	7		
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>					
Monobromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	N.D.	25 mg/kg	

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Tested Item(s)	Result		MDL	Limit
	10			
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>				
Monobromodiphenyl ether	N.D.		25 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.		25 mg/kg	
Tribromodiphenyl ether	N.D.		25 mg/kg	
Tetrabromodiphenyl ether	N.D.		25 mg/kg	
Pentabromodiphenyl ether	N.D.		25 mg/kg	
Hexabromodiphenyl ether	N.D.		25 mg/kg	
Heptabromodiphenyl ether	N.D.		25 mg/kg	
Octabromodiphenyl ether	N.D.		25 mg/kg	
Nonabromodiphenyl ether	N.D.		25 mg/kg	
Decabromodiphenyl ether	N.D.		25 mg/kg	

Tested Item(s)	Result			MDL	Limit
	1	2	7		
<b>Phthalates (DBP, BBP, DEHP, DIBP)</b>					
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg	1000 mg/kg

Tested Item(s)	Result		MDL	Limit
	10			
<b>Phthalates (DBP, BBP, DEHP, DIBP)</b>				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.		50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.		50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) 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

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**Sample/Part Description**

No.	CTI Sample ID	Description
1	1	White plastic with black printing
2	2	Colorless transparent adhesive
3	3.1	Silvery plating
4	3.2	Metal base
5	4.1	Light blue plating
6	4.2	Metal base
7	5.1	Silvery plating
8	5.2	Metal base
9	7	PCB(Tested as a whole)
10	8	Silvery soldering tin
11	10	Silvery electronic component (Tested as a whole)
12	11	Silvery soldering tin

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

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

\*=According to the client's statement, the material of the sample(s) fall into exemption items 6(c) according to EU Directive 2011/65/EU: Copper alloy containing up to 4 % lead by weight.

\*<sup>1</sup>=According to the client's statement, lead mainly comes from the high melting temperature type solders. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) is exempted from the restriction, with reference to EU Directive 2011/65/EU annex III Exemption Applications 7(a).

-\*<sup>2</sup>=According to the client's statement, the material of the sample(s) fall into exemption items 7(a) according to EU Directive 2011/65/EU :Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

-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.

**According to the client's statement, the Company Name shown on Report in this report and the Company Name shown on Report in the report A2250176591102 are the Group-subsiary relations, the test result(s) of this report is/are presented in reference to the result(s) that reported in A2250176591102.**

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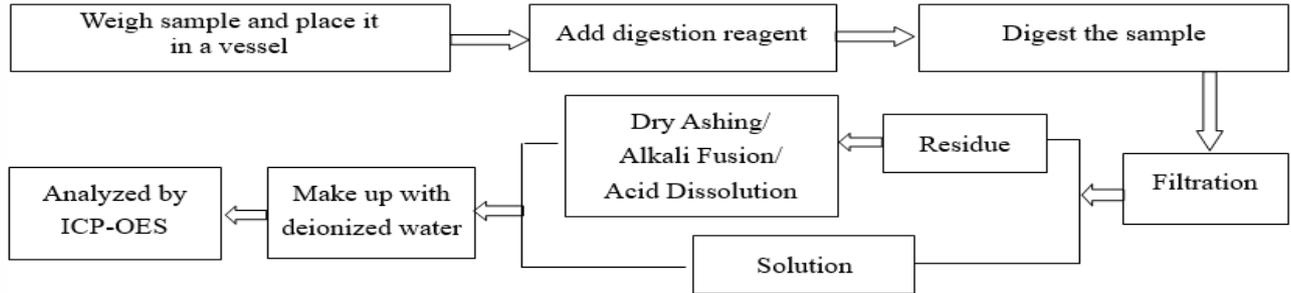
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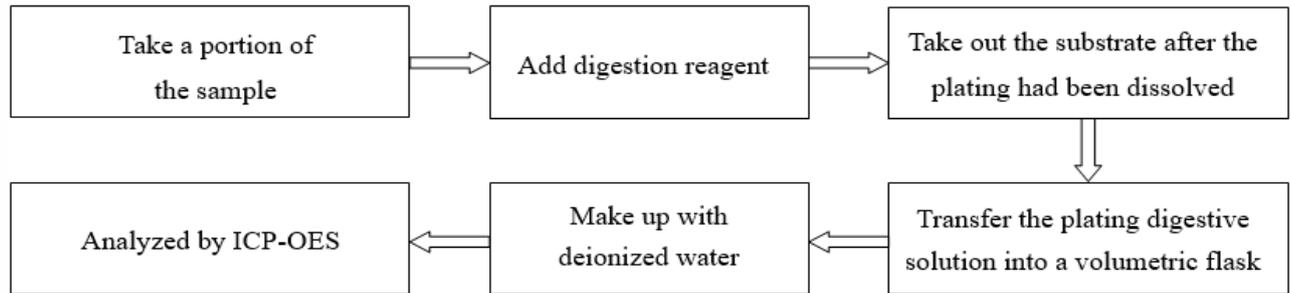
**Test Process**

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

**(1) IEC 62321-5:2013**

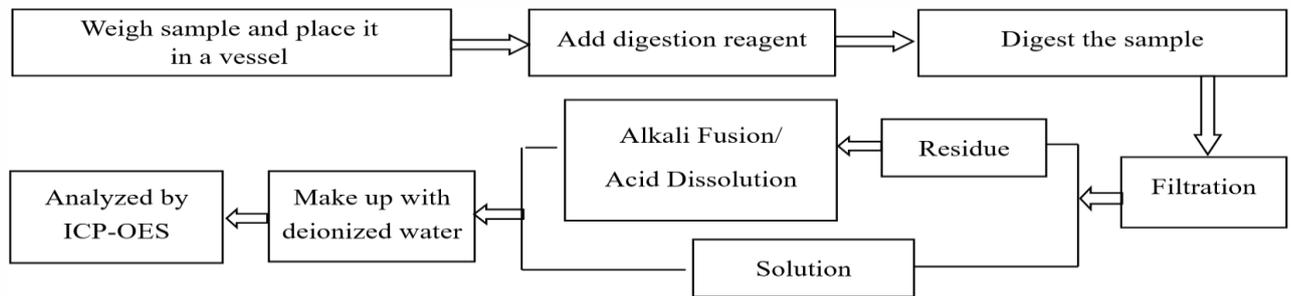


**(2) Refer to IEC 62321-5:2013**

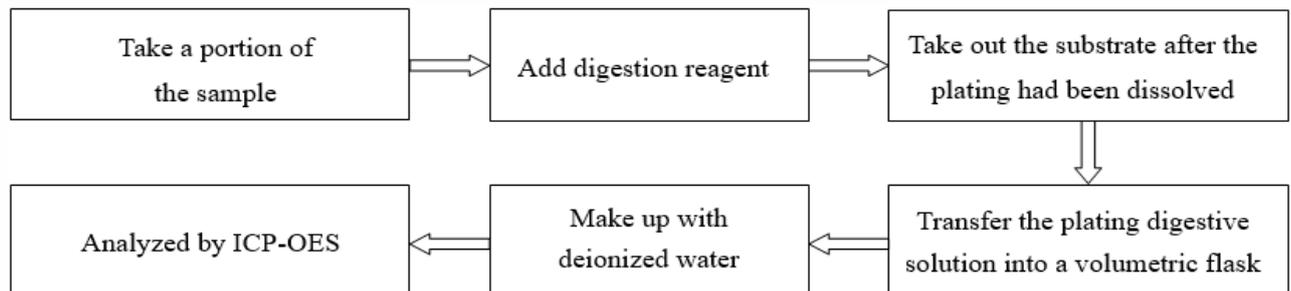


**2. Mercury (Hg)**

**(1) IEC 62321-4:2013+AMD1:2017 CSV**



**(2) Refer to IEC 62321-4:2013+AMD1:2017 CSV**



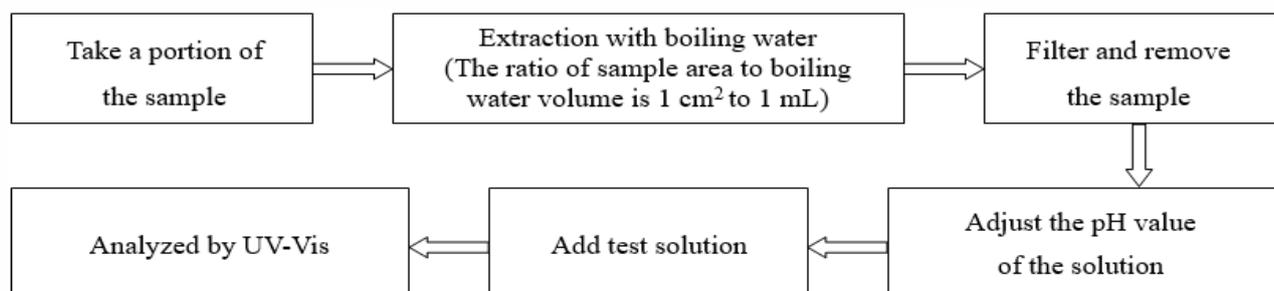
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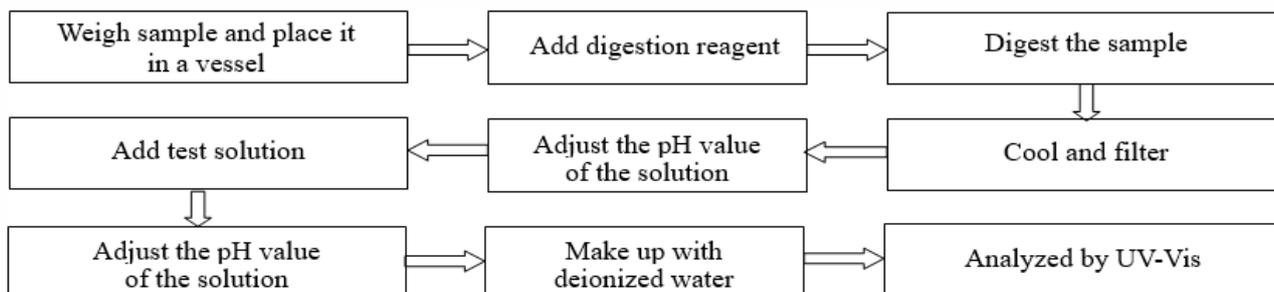
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### 3. Hexavalent Chromium (Cr(VI))

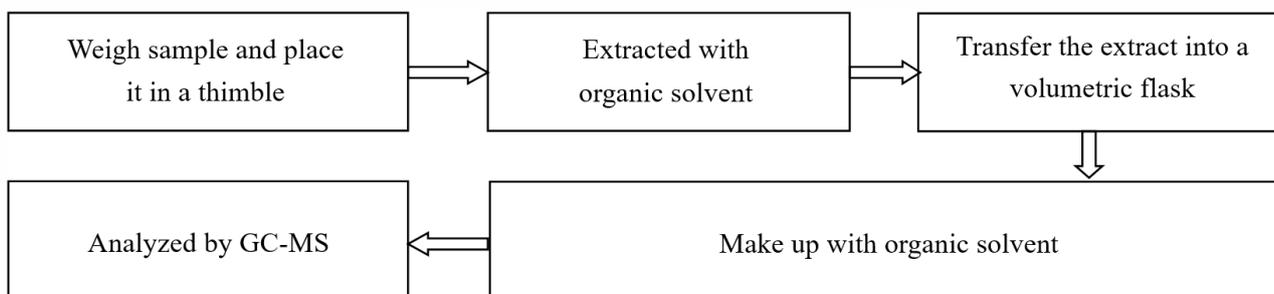
#### (1) IEC 62321-7-1:2015



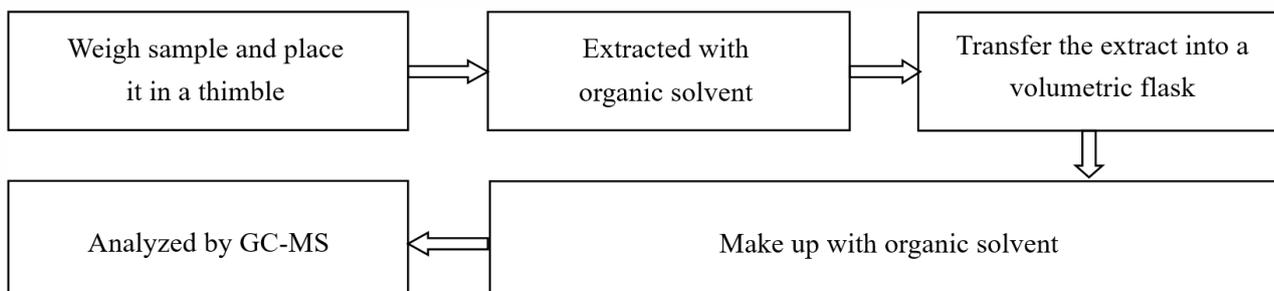
#### (2) IEC 62321-7-2:2017



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



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



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## Photo(s) of the sample(s)

Final Product

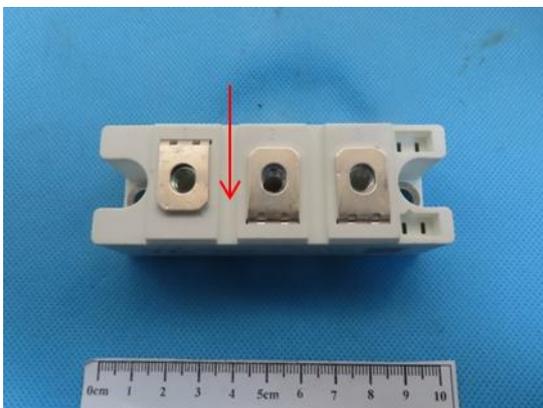


1

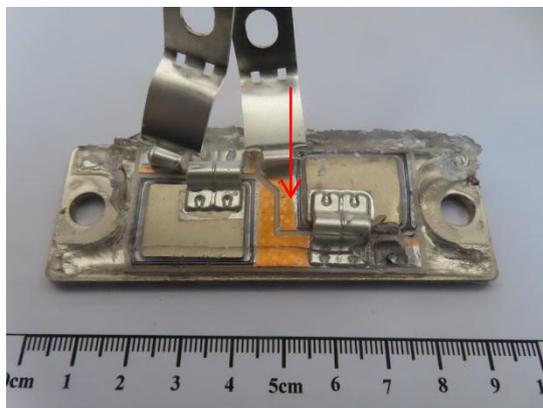
Final Product



2



3.1



3.2

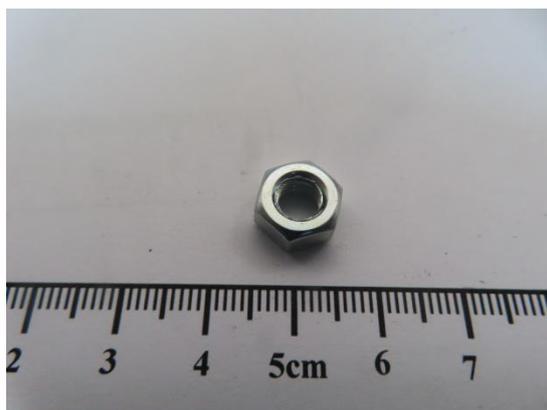


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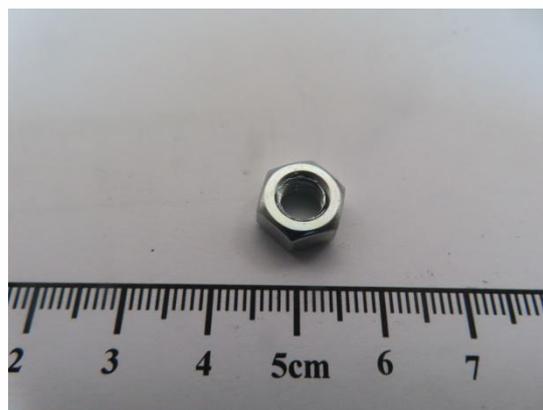
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4.1



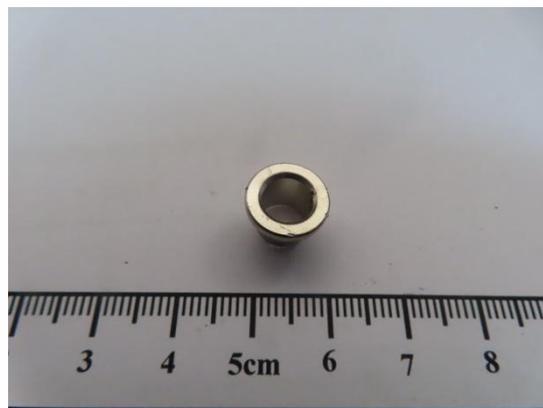
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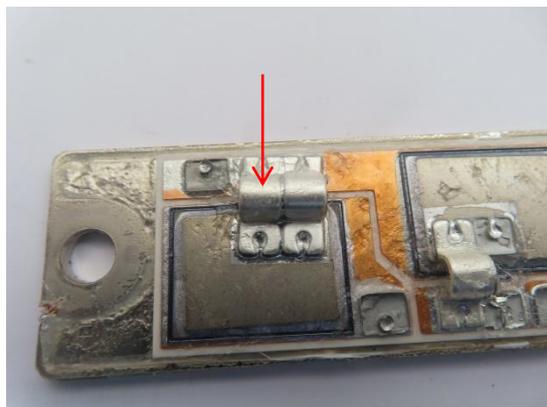
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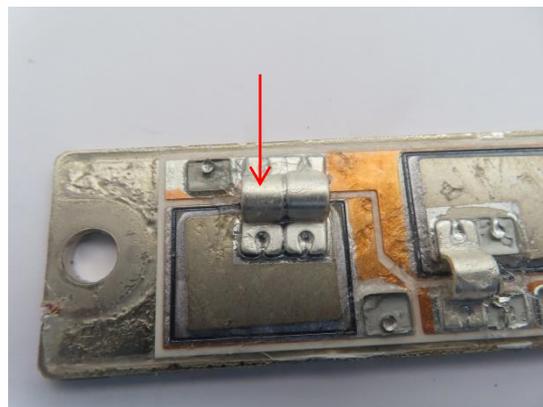
5.2



6.1(Client Reference Photo(Non-tested sample))



6.2(Client Reference Photo(Non-tested sample))

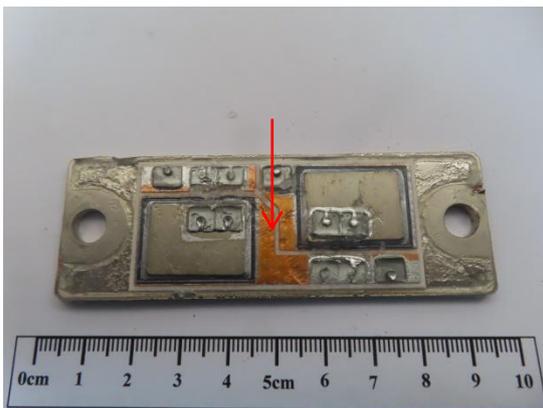


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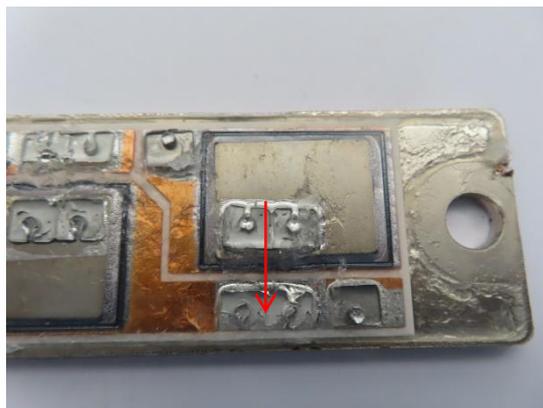
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9.1(Client Reference Photo(Non-tested sample))

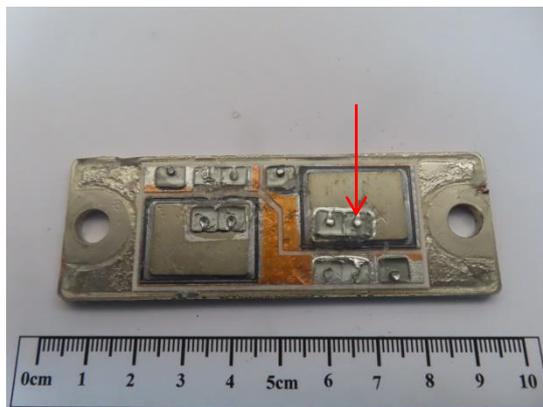
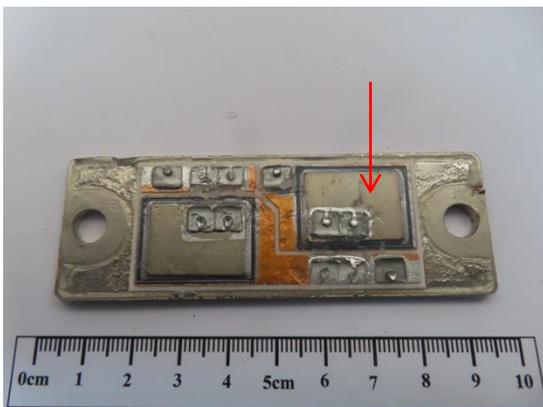
9.2(Client Reference Photo(Non-tested sample))



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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. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. 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 \*\*\*

## Appendix

### Client Reference Information

D1,D2,DA,C2,L1,L2,T1,D1,NMT,GJ,F1,F2,F2N,FS,P1,P2,P3,E1,E1A,E2,E2A,T1A,T1D,F1N,T2A,C21,C3,E3,  
P4,T2,M1,M2,M3,M4,M5,M6,M7,M8,M9,C1,NM2,NM3,F3,F4N,F5,F6

### Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A225017659110203.