

Test Report No. SHAMLP1812986801 Date: 21 Jun 2018 Page 1 of 8

AEM Components (Suzhou)Co.,Ltd

461 Zhongnan Street, Suzhou Industrial Park, Jiangsu, P.R.C

The following sample(s) was/were submitted and identified on behalf of the clients as: Thin Film Fuses

SGS Job No.: SHIN1806040108PC - SH

Product Specification: FF

Test Results:

Date of Sample Received: 14 Jun 2018

Testing Period: 14 Jun 2018 - 21 Jun 2018

Test Requested: Selected test(s) as requested by client.

Please refer to next page(s).

Test Method : Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Halery Han

Approved Signatory

Halery Han



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No. SHAMLP1812986801

Date: 21 Jun 2018

Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SHA18-129868.001 SN₁ Black/green solid with silvery metal piece

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, AAS, UV-Vis and GC-MS.

| Test Item(s) | <u>Limit</u> | <u>Unit</u> | MDL | <u>001</u> |
|------------------------------|--------------|-------------|-----|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | 4 |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Sum of PBBs | 1000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| | | | | |



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| Test Report | No. SHAMLP181298 | 6801 | Date: 2 | 21 Jun 2018 | Page 3 of 8 |
|-----------------------------------|------------------|-------------|------------|-------------|-------------|
| Test Item(s) | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND | |
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND | |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND | |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND | |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND | |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND | |
| Di-butyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND | |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND | |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND | |
| Diisobutyl Phthalates (DIBP) | 1000 | mg/kg | 50 | ND | |

Notes:

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG ID:1258637,25
- (2)On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3)The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4)The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5)The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Halogen

Test Method: With reference to EN 14582: 2016, analysis was performed by IC.

| Test Item(s) | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------|-------------|------------|------------|
| Fluorine (F) | mg/kg | 50 | 495 |
| Chlorine (CI) | mg/kg | 50 | 147 |
| Bromine (Br) | mg/kg | 50 | ND |



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Test Report No. SHAMLP1812986801 Date: 21 Jun 2018 Page 4 of 8

Test Item(s) Unit MDL *001* lodine (I) mg/kg 50 ND



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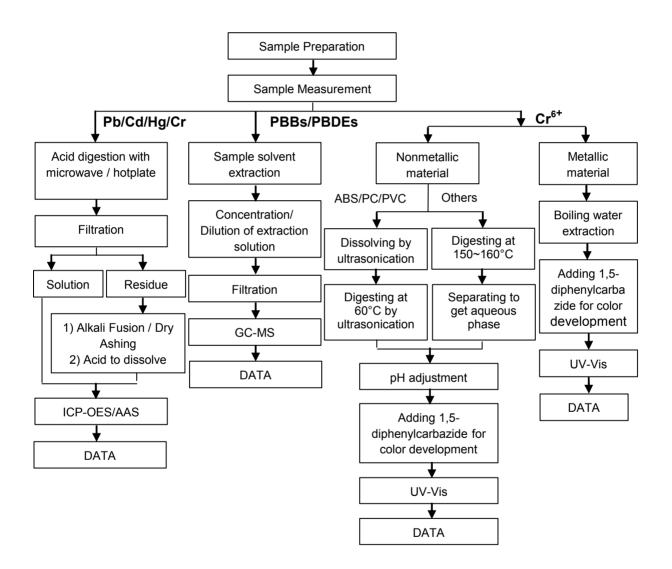
Page 5 of 8

Date: 21 Jun 2018

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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Gary Xu/ Xiaolong Yang/Sielina Song
- 2) Name of the person in charge of testing: Jan Shi/Myra Ma/Luna Xu/Shara Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- (Cr⁶⁺ and PBBs/PBDEs test method excluded)





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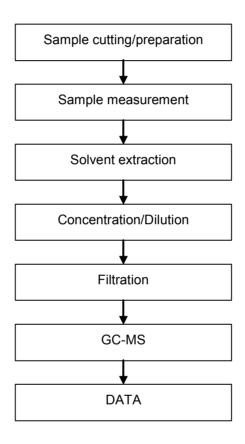
Page 6 of 8

Date: 21 Jun 2018

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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sherlock Gao
- 2) Name of the person in charge of testing: Jessy Huang





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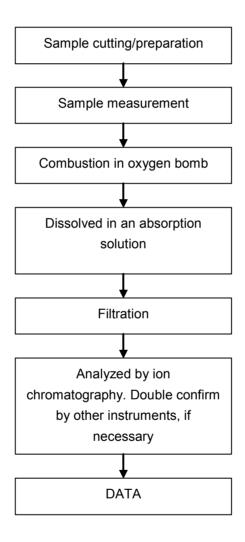
Page 7 of 8

Date: 21 Jun 2018

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Halogen Testing (oxygen bomb) Flow Chart

- 1) Name of the person who made testing: Kevin Xu
- 2) Name of the person in charge of testing: Sisily Yin





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Page 8 of 8

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