# Verification Report



Client Name : JINZHOU KAIMEI POWER CO.,LTD

Client Address : NO.141 JINYI STREET ,LINGHE DISTRICT,JINZHOU CITY, LIAONING PROVINCE

Sample Name : SUPERCAPACITOR MODUL

The above sample(s) and information were provided by the client.

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| | |
|---|---|
| SGS Job No. : | TP22-000668 - TJ |
| Date of Sample Received : | 15 Feb 2022 |
| Verification Period : | 15 Feb 2022 - 25 Feb 2022 |
| Verification Requested : | With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU |
| Verification Method : | Please refer to next page(s). |
| Verification Result : | Please refer to next page(s). |
| Verification Conclusion : | Based on the verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU. |

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

scan to see the report

4D7104E4

Jason Li
Approved Signatory

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Verification Method :

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
(1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
(2) Wet chemical test method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES,UV-Vis and GC-MS.

| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 1 | Blue plastic | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 2 | Colorful plastic(label) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |
| 3 | Black plastic | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | IN | ND | Comply | |
| | | BBP | --- | IN | ND | Comply | |
| | | DEHP | --- | IN | 860 | Comply | |
| | | DIBP | --- | IN | ND | Comply | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 4 | Copper-colored metal(PCB) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | --- | --- | --- | --- | |
| | | PBDEs | --- | --- | --- | --- | |
| | | DBP | --- | --- | --- | --- | |
| | | BBP | --- | --- | --- | --- | |
| | | DEHP | --- | --- | --- | --- | |
| | | DIBP | --- | --- | --- | --- | |
| 5 | Black SMD audion(PCB) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 6 | Silvery metal(soldering tin)(PCB) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | --- | --- | --- | --- | |
| | | PBDEs | --- | --- | --- | --- | |
| | | DBP | --- | --- | --- | --- | |
| | | BBP | --- | --- | --- | --- | |
| | | DEHP | --- | --- | --- | --- | |
| | | DIBP | --- | --- | --- | --- | |
| 7 | Green PCB | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 8 | Blue plastic | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▾ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |
| 9 | Silvery metal | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▾ | BL | --- | --- | Comply | |
| | | PBBs | --- | --- | --- | --- | |
| | | PBDEs | --- | --- | --- | --- | |
| | | DBP | --- | --- | --- | --- | |
| | | BBP | --- | --- | --- | --- | |
| | | DEHP | --- | --- | --- | --- | |
| | | DIBP | --- | --- | --- | --- | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 10 | Black rubber | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | IN | ND | Comply | |
| | | BBP | --- | IN | ND | Comply | |
| | | DEHP | --- | IN | ND | Comply | |
| | | DIBP | --- | IN | ND | Comply | |
| 11 | Silvery metal(pin) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▼ | BL | --- | --- | Comply | |
| | | PBBs | --- | --- | --- | --- | |
| | | PBDEs | --- | --- | --- | --- | |
| | | DBP | --- | --- | --- | --- | |
| | | BBP | --- | --- | --- | --- | |
| | | DEHP | --- | --- | --- | --- | |
| | | DIBP | --- | --- | --- | --- | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 12 | Silvery metal(foil) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▾ | BL | --- | --- | Comply | |
| | | PBBs | --- | --- | --- | --- | |
| | | PBDEs | --- | --- | --- | --- | |
| | | DBP | --- | --- | --- | --- | |
| | | BBP | --- | --- | --- | --- | |
| | | DEHP | --- | --- | --- | --- | |
| | | DIBP | --- | --- | --- | --- | |
| 13 | Black coating | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▾ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |

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| Part No. | Part Description | Restricted Substances | Results of EDXRF(1) | Screening Result of PHTH(2) | Result of Wet Chemical Testing (3)(mg/kg) | Conclusion | Sample Submitted / Resubmitted Date |
|---|---|---|---|---|---|---|---|
| 14 | White paper | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▾ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |
| 15 | Brown plastic(adhesive tape) | Pb | BL | --- | --- | Comply | 15 Feb 2022 |
| | | Cd | BL | --- | --- | Comply | |
| | | Hg | BL | --- | --- | Comply | |
| | | Cr(VI)▾ | BL | --- | --- | Comply | |
| | | PBBs | BL | --- | --- | Comply | |
| | | PBDEs | BL | --- | --- | Comply | |
| | | DBP | --- | BL | --- | Comply | |
| | | BBP | --- | BL | --- | Comply | |
| | | DEHP | --- | BL | --- | Comply | |
| | | DIBP | --- | BL | --- | Comply | |

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**Remark**

(1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

| Element | Polymer | Metal | Composite Materials |
|---|---|---|---|
| Cd | BL≤(70-3σ)<X<(130+3σ)≤OL | BL≤(70-3σ)<X<(130+3σ)≤OL | LOD<X <(150+3σ)≤OL |
| Pb | BL≤(700-3σ)<X<(1300+3σ)≤OL | BL≤(700-3σ)<X<(1300+3σ)≤OL | BL≤(500-3σ)<X<(1500+3σ)≤OL |
| Hg | BL≤(700-3σ)<X<(1300+3σ)≤OL | BL≤(700-3σ)<X<(1300+3σ)≤OL | BL≤(500-3σ)<X<(1500+3σ)≤OL |
| Br | BL≤(300-3σ)<X | Not Applicable | BL≤(250-3σ)<X |
| Cr | BL≤(700-3σ)<X | BL≤(700-3σ)<X | BL≤(500-3σ)<X |

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection.

(d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) (a) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value(unit: mg/kg).

| Compound | Polymer |
|---|---|
| DBP | BL≤600<X |
| BBP | BL≤600<X |
| DEHP | BL≤600<X |
| DIBP | BL≤600<X |

(3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable, - = Without BOM.

(b) Unit and MDL in wet chemical test

| Test Item | Pb | Cd | Hg | DBP | BBP | DEHP | DIBP |
|---|---|---|---|---|---|---|---|
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| MDL | 10 | 10 | 10 | 100 | 100 | 100 | 100 |

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.
MDL of Cr(VI) for metal sample is 0.10μg/cm$^2$.

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(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm$^2$. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm$^2$). The coating is considered a non- Cr(VI) based coating

c. The result between 0.10 μg/cm$^2$ and 0.13 μg/cm$^2$ is considered to be inconclusive
- unavoidable coating variations may influence the determination

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.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

(5) IEC 62321 series is equivalent to EN 62321 series. https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

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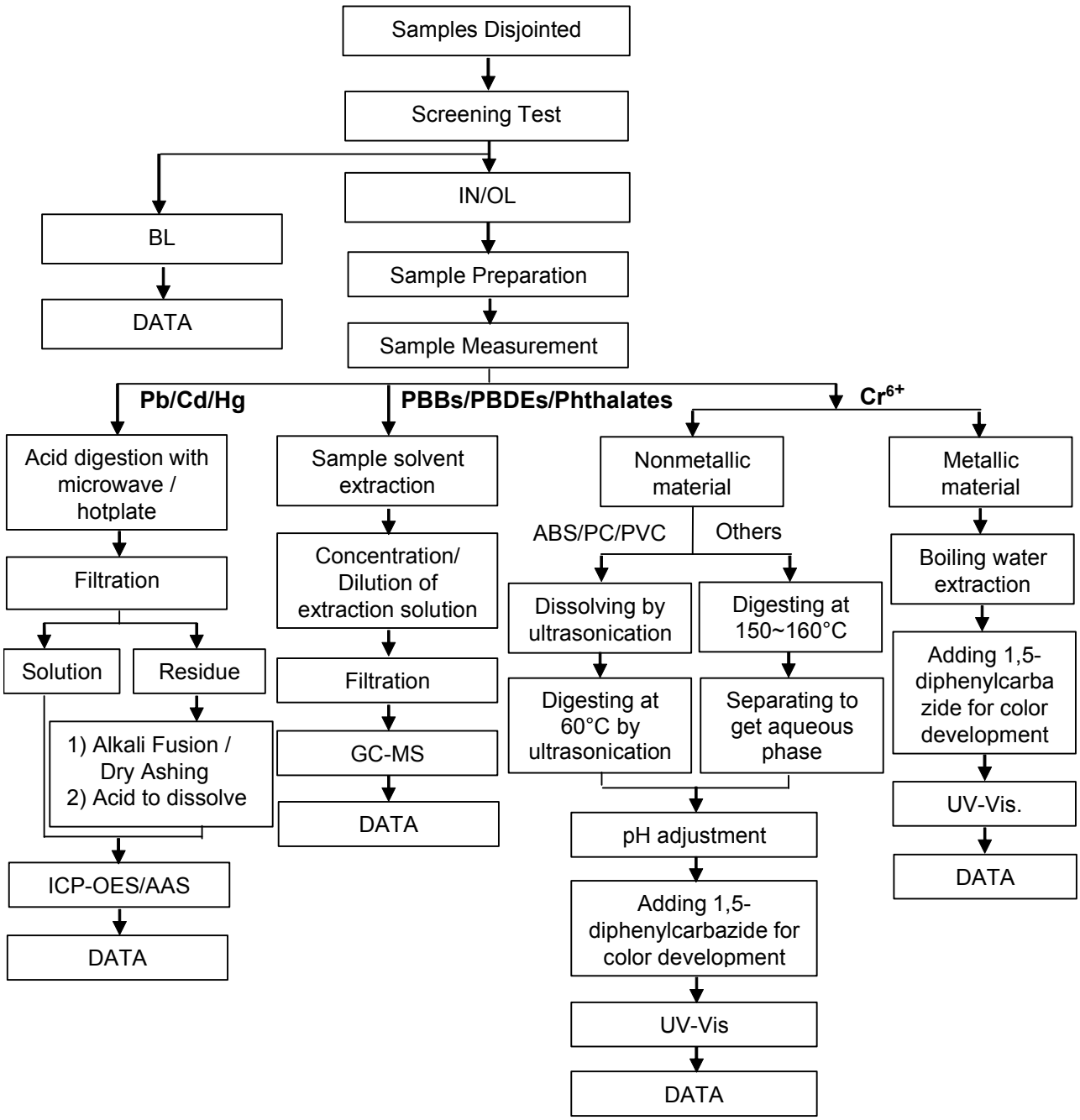
## ATTACHMENTS

### Pb/Cd/Hg/$Cr^{6+}$/PBBs/PBDEs/Phthalates XRF Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. ($Cr^{6+}$ and PBBs/PBDEs /Phthalates test method excluded)

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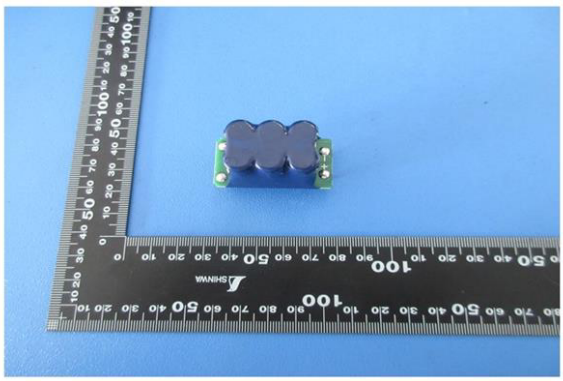
Sample photo:

TSNEC2200192001



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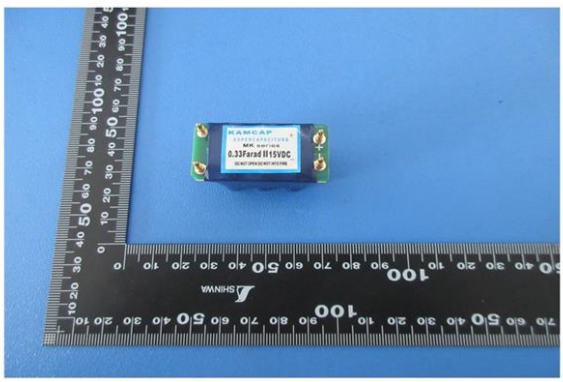


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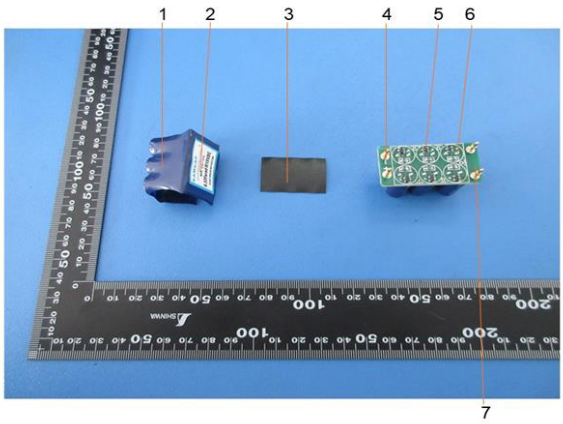


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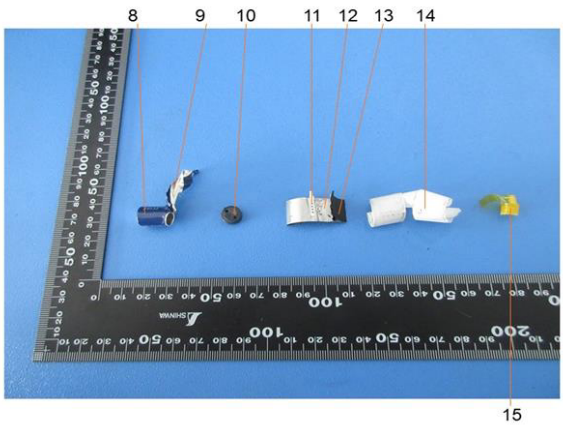


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