

# Test Report

No.: SHAEC26014264701

Date: May 27, 2026

Page 1 of 12

Client Name: JieJie Semiconductor Co.,Ltd

Client Address: No.6 jinggangshan Road, Nantong Sutong Science and Technology Industrial Park

Sample Name: AKS

Model No.: AKS

Client Ref. Information: MOV、AK、TPS

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

SGS Job No.: TIC1020260519135014T0A0

Sample Receiving Date: May 20, 2026

Testing Period: May 20, 2026 ~ May 26, 2026

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

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

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

| Test Requirement  | Conclusion  |
|---|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium   | Pass        |
| Element(s)  | See Results |
| Polyvinyl chloride (PVC)  | See Results |
| Halogen   | See Results |

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

*Susu Zhang*

Susu Zhang  
Approved Signatory

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**Test Result(s):**

**Test Part Description:**

| SN ID | Sample No. | SGS Sample ID           | Description |
|-------|------------|-------------------------|-------------|
| SN1   | A1         | SHA26-0142647-0001.C001 | Blue body   |
| SN2   | A2         | SHA26-0142647-0001.C002 | Silvery pin |

**Remarks:**

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

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

| Test Item(s)                              | Limit | Unit(s) | MDL | A1                  |
|---|-------|---------|-----|---------------------|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | 100166 <sup>▲</sup> |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND                  |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND                  |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND                  |
| Polybromobiphenyl (PBB)                   | 1000  | mg/kg   | -   | ND                  |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 5   | ND                  |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 5   | ND                  |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 5   | ND                  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 5   | ND                  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 5   | ND                  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 5   | ND                  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 5   | ND                  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 5   | ND                  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 5   | ND                  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 5   | ND                  |
| Polybromodiphenyl ether (PBDE)            | 1000  | mg/kg   | -   | ND                  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 5   | ND                  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 5   | ND                  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 5   | ND                  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 5   | ND                  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 5   | ND                  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND                  |



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# Test Report

No.: SHAEC26014264701

Date: May 27, 2026

Page 3 of 12

| Test Item(s)                              | Limit | Unit(s) | MDL | A1 |
|---|-------|---------|-----|----|
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 5   | ND |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 5   | ND |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 5   | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND |
| Dibutyl phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND |
| Diisobutyl phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (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) Lead (Pb): The reported result is for reference only.

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

| Test Item(s)                              | Limit | Unit(s)            | MDL  | A2 |
|---|-------|--------------------|------|----|
| Lead (Pb)                                 | 1000  | mg/kg              | 2    | 4  |
| Mercury (Hg)                              | 1000  | mg/kg              | 2    | ND |
| Cadmium (Cd)                              | 100   | mg/kg              | 2    | ND |
| Hexavalent Chromium (Cr(VI)) <sup>▼</sup> | -     | µg/cm <sup>2</sup> | 0.10 | ND |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) <sup>▼</sup> =
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. 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<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.

**Element(s)**

**Test Method:** With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.



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# Test Report

No.: SHAEC26014264701

Date: May 27, 2026

Page 4 of 12

| Test Item(s)  | Unit(s) | MDL | A2 |
|---------------|---------|-----|----|
| Antimony(Sb)  | mg/kg   | 10  | ND |
| Beryllium(Be) | mg/kg   | 5   | ND |

## Polyvinyl chloride (PVC)

**Test Method:** With reference to SGS in house method, analysis was performed by FTIR/ATR.

| Test Item(s)             | A1       |
|--------------------------|----------|
| Polyvinyl chloride (PVC) | Negative |

### Notes:

(1) Negative=Undetectable, Positive=Detectable

## Halogen

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

| Test Item(s) | Unit(s) | MDL | A1 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 20  | ND |
| Chlorine(Cl) | mg/kg   | 50  | ND |
| Bromine(Br)  | mg/kg   | 50  | ND |
| Iodine(I)    | mg/kg   | 50  | ND |

▲ According to the declaration from the client, Lead (Pb) is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)-I]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) for internal interconnections for attaching die or other components in semiconductor assembly, meeting any of the following: steady state/transient current  $\geq 0.1A$ , blocking voltage  $> 10V$ , or die edge size  $> 0.3mm \times 0.3mm$ .

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

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.



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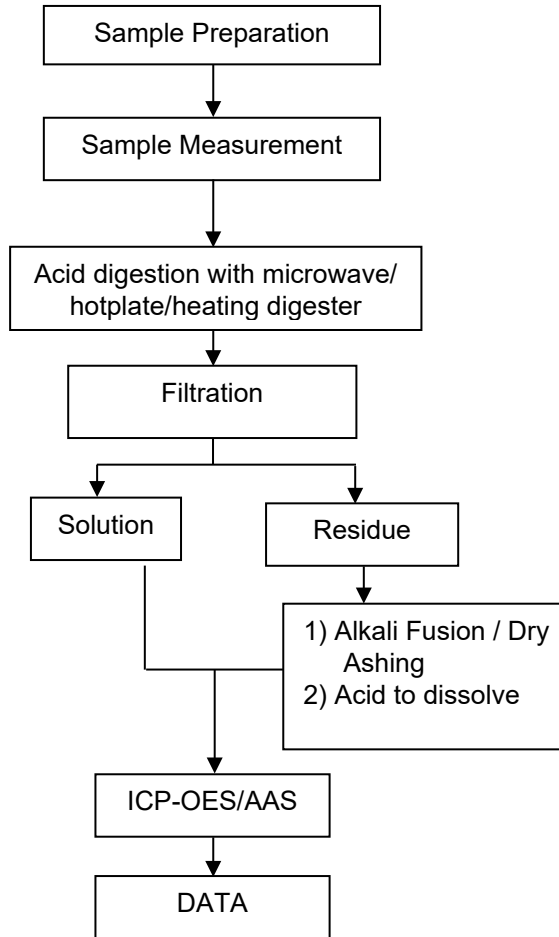
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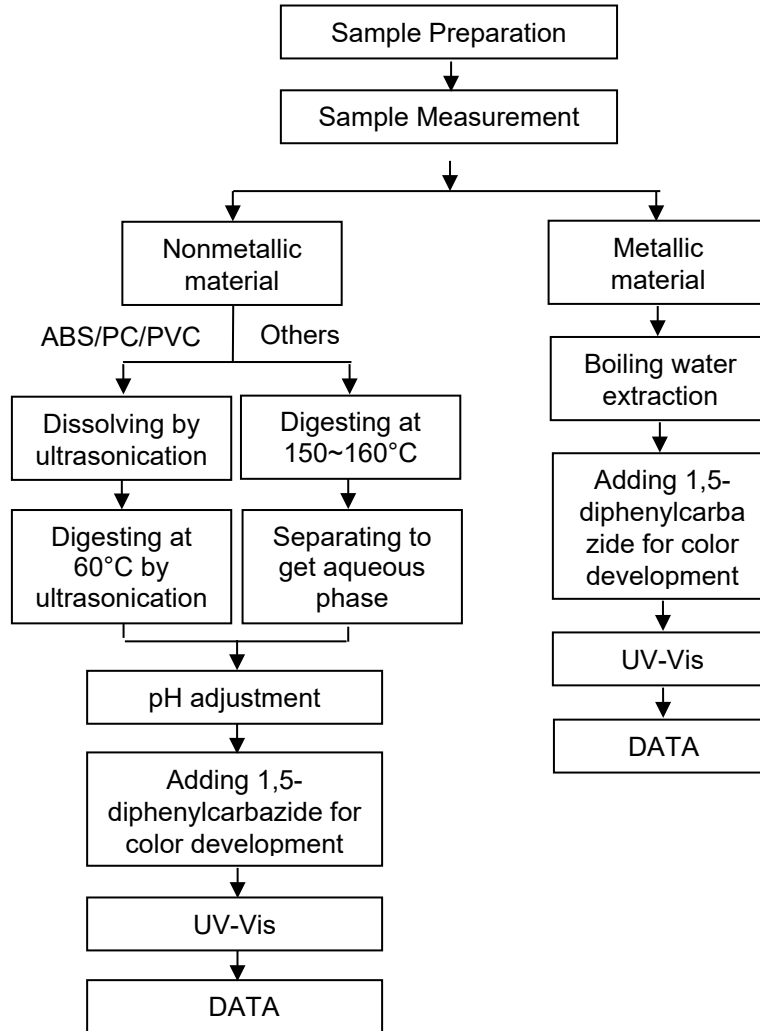
**Elements Testing Flow Chart**

These samples of Pb/Cd/Hg were dissolved totally by pre-conditioning method according to below flow chart.



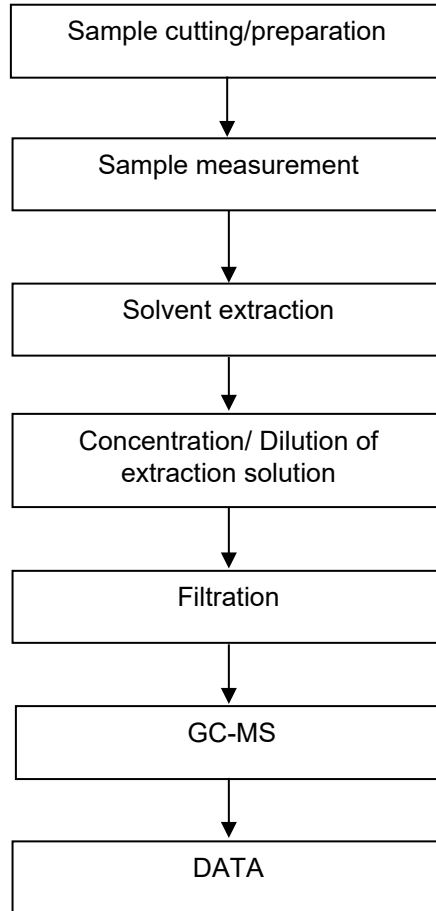
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**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

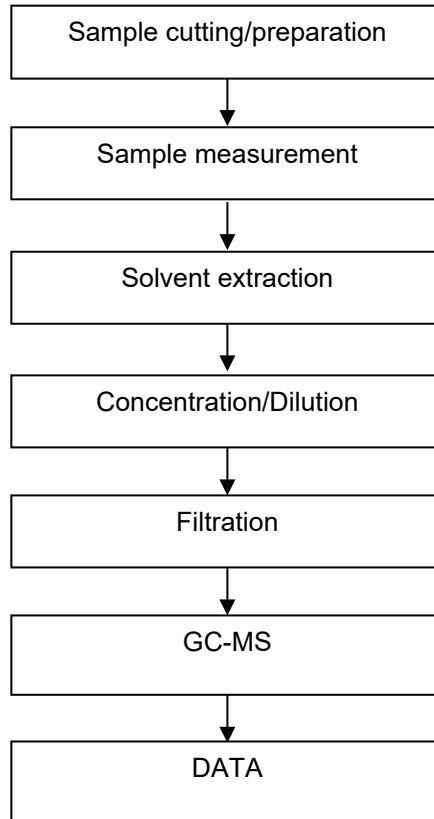


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**PBB(s)/PBDE(s) Testing Flow Chart**

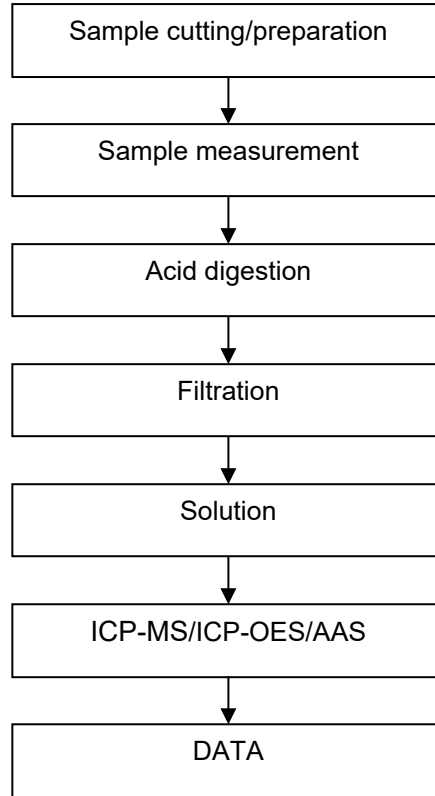


### Phthalates Testing Flow Chart

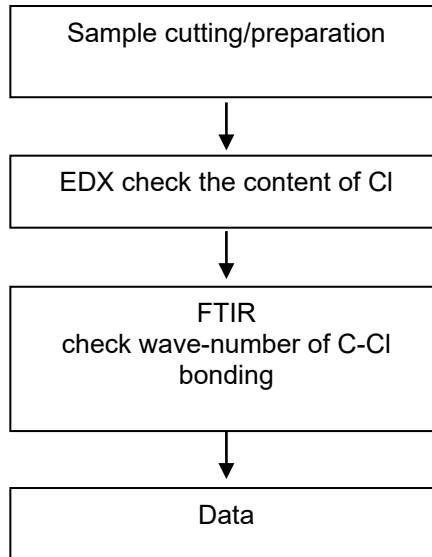


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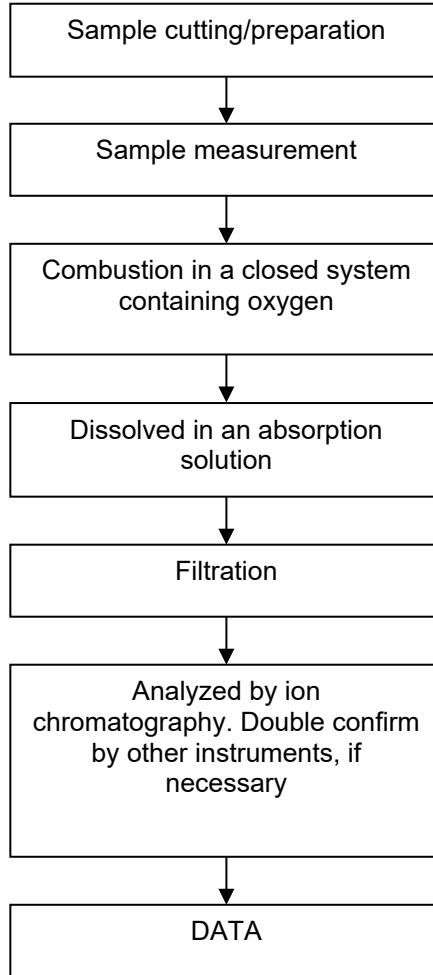
### Elements Testing Flow Chart



### PVC Testing Flow Chart



### Halogen Testing Flow Chart



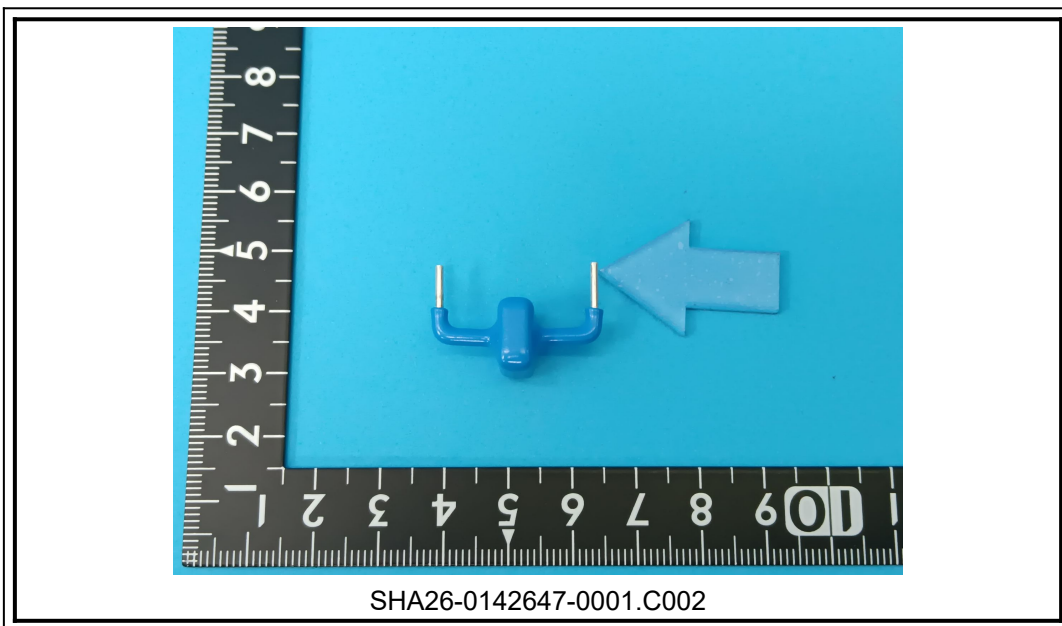
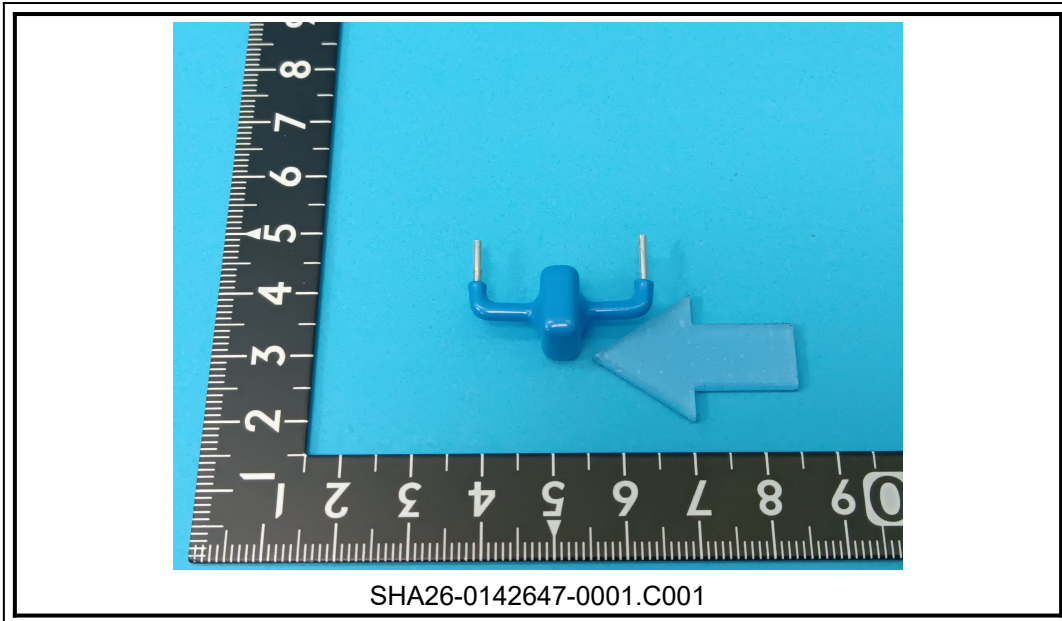
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Date: May 27, 2026

Page 12 of 12

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