

## Verification Report

No. SZXEC2101015402

Date: 08 Jun 2021

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PROMOVER INDUSTRIAL (SHENZHEN) CO., LTD.

FLOOR 3, BUILDING 12, TANGWEI FUYUAN INDUSTRIAL PARK, FUYONG TOWN, BAO'AN, DISTRICT,  
SHENZHEN CITY, GUANGDONG

Sample Name : Magnetic Buzzer  
SGS Job No. : RP21-007860 - SZ  
Tested Basic Model No. (P.O. No.) : HS-09-96-12-16  
Material No. : HS-09-96-12-16  
Country of Origin : CHINA  
Date of Sample Received : 12 Apr 2021  
Verification Period : 12 Apr 2021 - 01 Jun 2021  
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 Co., Ltd. Shenzhen Branch



Andy Ni  
Approved Signatory

scan to see the report



SZXEC2101015402



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Shenzhen Branch Testing Laboratory

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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+A1:2017, 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.



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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 on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|---------------------|-----------------------|---------------------|-----------------------------|---|-----------------------|-------------------------------------|
| 1        | Black plastic shell | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021<br>11 May 2021          |
|          |                     | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | PBBs                  | IN                  | ---                         | ND  | Comply                |                                     |
|          |                     | PBDEs                 | IN                  | ---                         | ND  | Comply                |                                     |
|          |                     | DBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                     | BBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                     | DEHP                  | ---                 | ---                         | ND  | Comply                |                                     |
|          |                     | DIBP                  | ---                 | ---                         | ND  | Comply                |                                     |
| 2        | Silvery metal pin   | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                     | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | PBBs                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | PBDEs                 | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | DBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | BBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | DEHP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | DIBP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
| 3        | Black dry glue      | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                     | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | PBBs                  | IN                  | ---                         | ND  | Comply                |                                     |
|          |                     | PBDEs                 | IN                  | ---                         | ND  | Comply                |                                     |
|          |                     | DBP                   | ---                 | BL                          | ---                                       | Comply                |                                     |



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|----------|---------------------|-----------------------|---------------------|-----------------------------|---|-----------------------|-------------------------------------|
|          |                     | BBP                   | ---                 | BL                          | ---                                       | Comply                |                                     |
|          |                     | DEHP                  | ---                 | BL                          | ---                                       | Comply                |                                     |
|          |                     | DIBP                  | ---                 | BL                          | ---                                       | Comply                |                                     |
| 4        | Black magnet        | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                     | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | PBBs                  | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | PBDEs                 | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | DBP                   | ---                 | ---                         | ---                                       |                       |                                     |
|          |                     | BBP                   | ---                 | ---                         | ---                                       |                       |                                     |
|          |                     | DEHP                  | ---                 | ---                         | ---                                       |                       |                                     |
|          |                     | DIBP                  | ---                 | ---                         | ---                                       |                       |                                     |
| 5        | Silvery metal plate | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                     | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                     | PBBs                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | PBDEs                 | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | DBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | BBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | DEHP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                     | DIBP                  | ---                 | ---                         | ---                                       | ---                   |                                     |



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|----------|---------------------------|-----------------------|---------------------|-----------------------------|---|-----------------------|-------------------------------------|
| 6        | Silvery metal column      | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                           | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | PBBs                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | PBDEs                 | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | BBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DEHP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DIBP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
| 7        | Silvery metal round plate | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                           | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | PBBs                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | PBDEs                 | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | BBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DEHP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DIBP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
| 8        | Silvery metal round plate | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                           | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                           | PBBs                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | PBDEs                 | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                           | DBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |



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|----------|-----------------------|--|--|--|--|--|-------------------------------------|
|          |                       | BBP<br>DEHP<br>DIBP  | ---<br>---<br>---  | ---<br>---<br>---  | ---<br>---<br>---  | ---<br>---<br>---  |                                     |
| 9        | Coppery enameled wire | Pb<br>Cd<br>Hg<br>Cr(VI)▼<br>PBBs<br>PBDEs<br>DBP<br>BBP<br>DEHP<br>DIBP | BL<br>BL<br>BL<br>BL<br>BL<br>BL<br>---<br>---<br>---<br>--- | ---<br>---<br>---<br>---<br>---<br>---<br>BL<br>BL<br>BL<br>BL     | ---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>--- | Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply | 12 Apr 2021                         |
| 10       | Green "PCB"           | Pb<br>Cd<br>Hg<br>Cr(VI)▼<br>PBBs<br>PBDEs<br>DBP<br>BBP<br>DEHP<br>DIBP | BL<br>BL<br>BL<br>BL<br>IN<br>IN<br>---<br>---<br>---<br>--- | ---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>---<br>--- | ---<br>---<br>---<br>---<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND       | Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply<br>Comply | 12 Apr 2021                         |



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|----------|--------------------------|-----------------------|---------------------|-----------------------------|---|-----------------------|-------------------------------------|
| 11       | Silvery metal solder     | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                          | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | PBBs                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                          | PBDEs                 | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                          | DBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                          | BBP                   | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                          | DEHP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
|          |                          | DIBP                  | ---                 | ---                         | ---                                       | ---                   |                                     |
| 12       | White dry glue           | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                          | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | PBBs                  | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | PBDEs                 | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | DBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                          | BBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                          | DEHP                  | ---                 | ---                         | ND  | Comply                |                                     |
|          |                          | DIBP                  | ---                 | ---                         | ND  | Comply                |                                     |
| 13       | Black chip resistor body | Pb                    | IN                  | ---                         | 825                                       | Comply                | 12 Apr 2021                         |
|          |                          | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | Cr(VI)▼               | IN                  | ---                         | ND  | Comply                |                                     |
|          |                          | PBBs                  | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | PBDEs                 | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                          | DBP                   | ---                 | ---                         | ND  | Comply                |                                     |



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|----------|-------------------|-----------------------|---------------------|-----------------------------|---|-----------------------|-------------------------------------|
|          |                   | BBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                   | DEHP                  | ---                 | ---                         | ND  | Comply                |                                     |
|          |                   | DIBP                  | ---                 | ---                         | ND  | Comply                |                                     |
| 14       | Black audion body | Pb                    | BL                  | ---                         | ---                                       | Comply                | 12 Apr 2021                         |
|          |                   | Cd                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                   | Hg                    | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                   | Cr(VI)▼               | BL                  | ---                         | ---                                       | Comply                |                                     |
|          |                   | PBBs                  | IN                  | ---                         | ND  | Comply                |                                     |
|          |                   | PBDEs                 | IN                  | ---                         | ND  | Comply                |                                     |
|          |                   | DBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                   | BBP                   | ---                 | ---                         | ND  | Comply                |                                     |
|          |                   | DEHP                  | ---                 | ---                         | ND  | Comply                |                                     |
|          |                   | DIBP                  | ---                 | ---                         | ND  | 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               | --                             | 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, -- = Not regulated.

(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) 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 conducted, - = 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   |



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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<sup>2</sup>.

(c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>.  
 The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>).  
 The coating is considered a non-CrVI 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.

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:125863\\_7,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:125863_7,25)

(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.

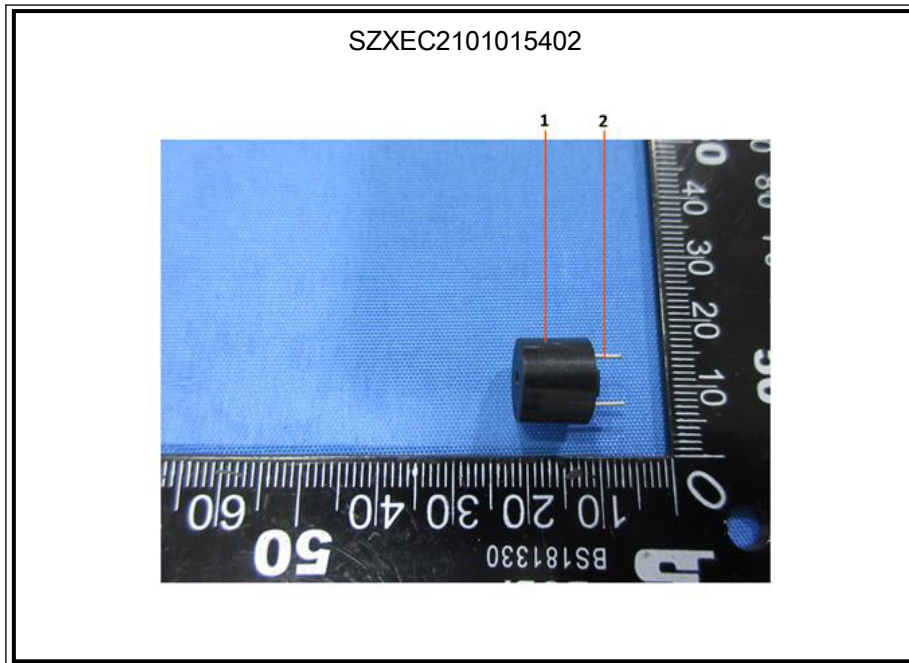
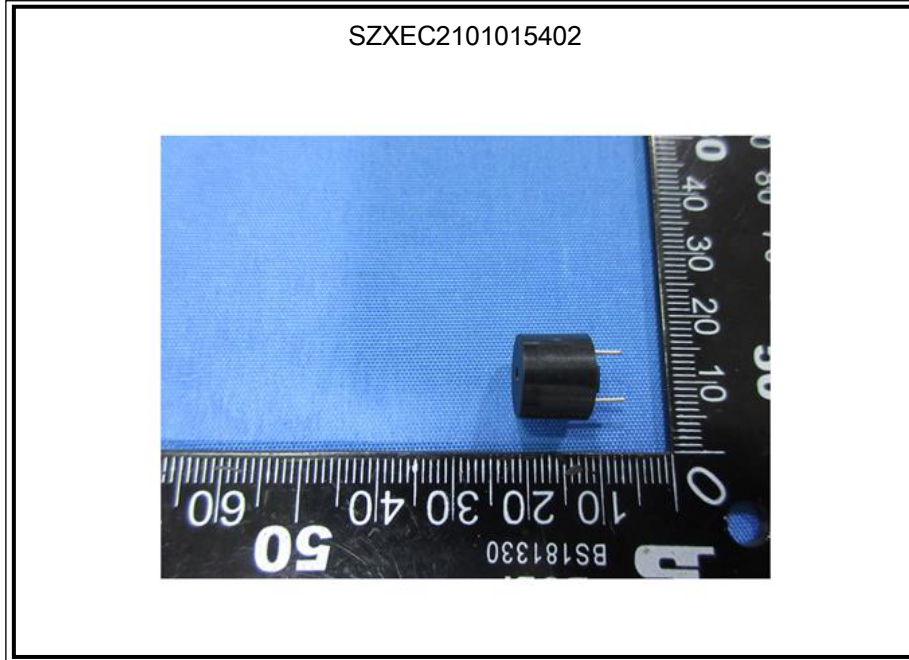


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Sample photo:



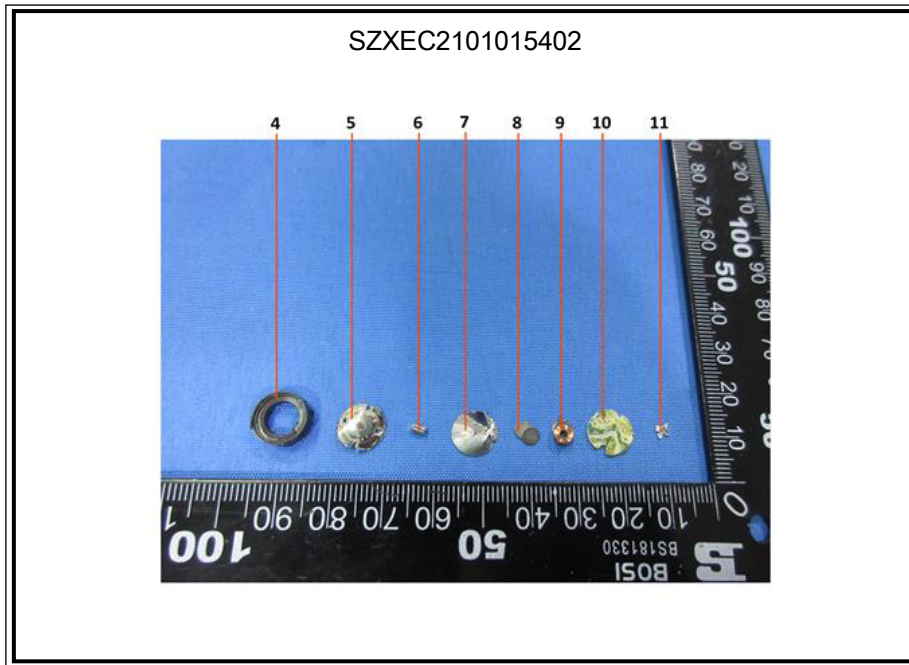
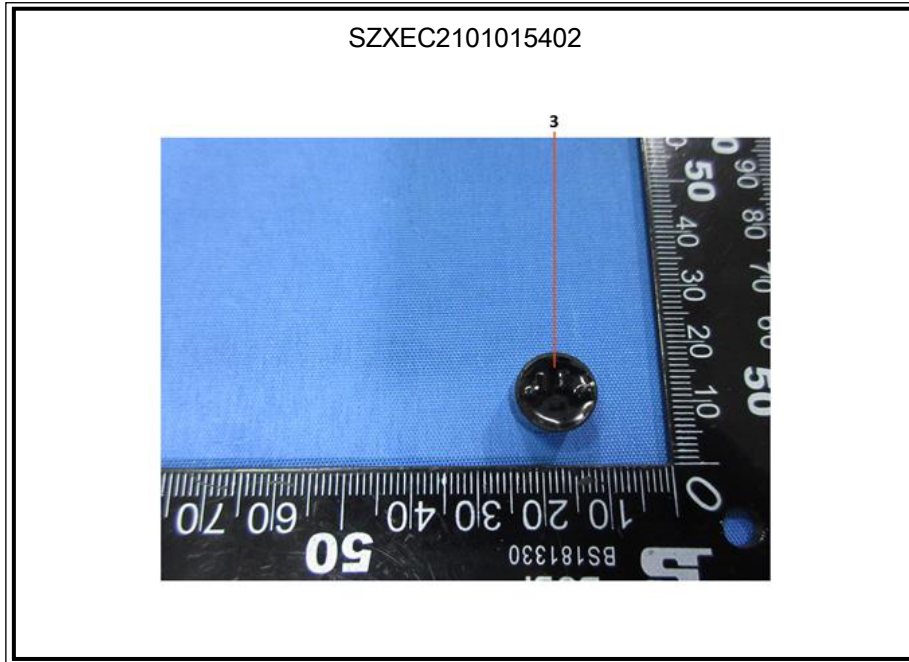
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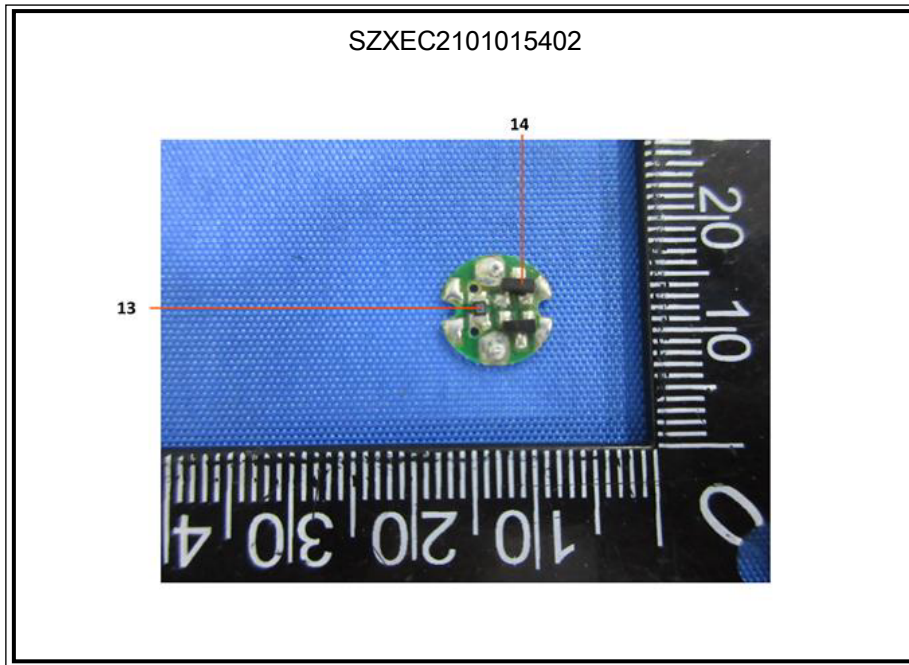
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