

**Test Report** No.: SZXEC24002716901 **Date**: Aug 28, 2024 Page 1 of 7

Client Name: PULSETAKE DEVICES LIMITED

Client Address: RM811-812, BD# QIURUI, RD MINGKANG, ST MINZHI, LONGHUA, DISTRICT,

SHENZHEN, CHINA

Sample Name: FERRITE CHIP BEAD

Model No.: PCB1005-301

Client Ref. Information: 1005 1608 2012 3216 SERIES

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

SGS Job No.: TIC1020240822093147AREG

Sample Receiving Date: Aug 23, 2024

Testing Period: Aug 23, 2024 ~ Aug 28, 2024

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 | Pass       |
| (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)   |            |

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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May Bei

**Approved Signatory** 





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**Test Report** No.: SZXEC24002716901 **Date:** Aug 28, 2024 Page 2 of 7

#### Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description         |
|-------|------------|-------------------------|---------------------|
| SN1   | A1         | SZX24-0027169-0001.C001 | "FERRITE CHIP BEAD" |

#### 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 and IEC 62321-12:2023, 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   | ND |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND |
| Polybrominated biphenyls (PBB)            | 1000  | mg/kg   | -   | ND |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 25  | ND |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 25  | ND |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND |
| Dibrominated diphenyl ether (DiBDE)       | •     | mg/kg   | 25  | ND |
| Tribrominated diphenyl ether (TriBDE)     | ı     | mg/kg   | 25  | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 25  | ND |



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**Test Report** No.: SZXEC24002716901 **Date:** Aug 28, 2024 Page 3 of 7

| Test Item(s)                            | Limit | Unit(s) | MDL | A1 |
|---|-------|---------|-----|----|
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 25  | ND |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 25  | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP)       | 1000  | mg/kg   | 50  | ND |
| Benzyl Butyl 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.

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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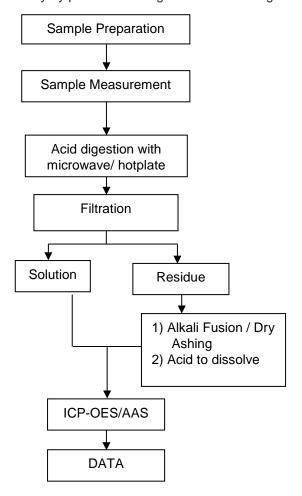


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 Page 4 of 7

#### **Elements Testing Flow Chart**

These samples were dissolved totally by pre-conditioning method according to below flow chart.





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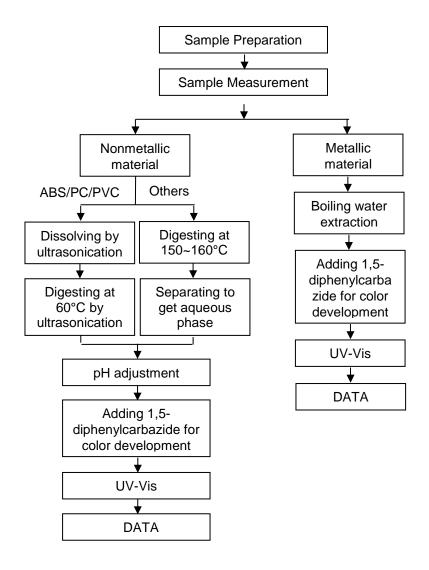
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SZXEC24002716901 No.: **Date:** Aug 28, 2024 Page 5 of 7

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





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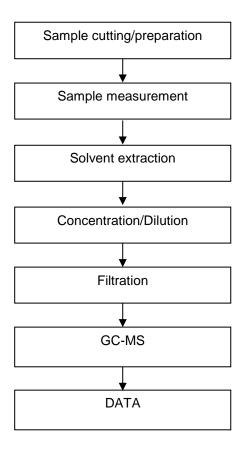
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### PBBs/PBDEs/Phthalates Testing Flow Chart





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**Test Report No.:** SZXEC24002716901 **Date:** Aug 28, 2024 Page 7 of 7

Sample Photo:



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