

Test Report

Report No. : TCT210630C002

Date : Jul. 15, 2021

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Applicant: ORICO Technologies Co., Ltd.

Address: 1903-1904.14A, Zhonghaixin Innovation Industrial park, no.12, Gan Lee Sixth Road, Gankeng Community, Jihua Street, Shenzhen, China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Charger


Model No.: DUK-4P

Client Reference XXX-4P (X Expression A to Z)

Information:

Factory: Dongguan XYQC Electronic Technologies Co., Ltd.

Address: Room 401, building 6, 24 Tangjiao Road, Changping Town, Dongguan City, Guangdong, China

Trade Mark: 

Sample Received Date: 2021.06.30

Testing Period: 2021.06.30—2021.07.15

Test Requested: According to customer's requirements, Split the sample and determine the Pb, Cd, Hg, Cr(VI), PBBs & PBDEs, DBP, BBP, DEHP, DIBP content of the parts.

Test Method:

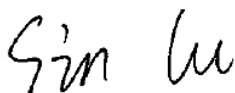
1. Sample prepared with reference to IEC 62321-2:2013
2. Sample Screening testing with reference to IEC 62321-3-1:2013
3. Wet Chemical Test Method
 - a. Determination of Lead ,Cadmium by ICP-OES with reference to IEC 62321-5:2013
 - b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013+AMD1:2017
 - c. Determination of Hexavalent Chromium in colourless and coloured corrosion-protected coatings on metals by UV-VIS method reference to IEC 62321-7-1:2015
 - d. Determination of Hexavalent Chromium in polymers and electronics by UV-Vis Method with reference to IEC 62321-7-2:2017.
 - e. Determination of PBBs and PBDEs by GC-MS with reference to IEC 62321-6:2015
 - f. Determination of DBP, BBP, DEHP and DIBP by GC-MS with reference to IEC 62321-8:2017

Test Result(s): Please refer to the following page(s).

Conclusion: Base upon the performed tests by submitted sample, the test results comply with the limits as set by Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

Checked by

Signed for and on behalf of TCT



Sin Lu



Noel Yin

Technical Manager



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Test Result(s):

| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|------------------------|---|--|--|--|-----------------------------------|
| 1 | White plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 2 | White soft plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 3 | White double side tape | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. 840 N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 14, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|---------------------------|---|--|--|--|-----------------------------------|
| 4 | Silvery color metal screw | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 5 | Transparent soft plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 6 | Black plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |

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|----------|-------------------------------|---|--|--|--|-----------------------------------|
| 7 | Solder | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 8 | Silvery color metal wire core | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 9 | Brown plastic jacket | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|---------------------|-----------------------|---------------------|--|--------------------|-----------------------------------|
| 10 | Blue plastic jacket | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |
| 11 | Silvery color metal | Pb | BL | --- | Comply | Jul. 03, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | --- | --- | NA | |
| | | PBDEs | --- | --- | NA | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |
| 12 | Silvery color metal | Pb | BL | --- | Comply | Jul. 03, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | --- | --- | NA | |
| | | PBDEs | --- | --- | NA | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|----------------------------|---|--|--|--|-----------------------------------|
| 13 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 14 | Black dry glue | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 15 | Grey electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL IN IN --- --- --- --- | --- --- --- --- N.D. N.D. --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 Jul. 06, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|---------------------------------|---|--|--|--|-----------------------------------|
| 16 | Indian red electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 17 | Blue electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 18 | Silvery color metal | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |

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|----------|-------------------------|---|--|--|--|-----------------------------------|
| 19 | White plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 20 | Silvery color metal pin | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 21 | Black soft plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|--------------------------|---|--|--|--|-----------------------------------|
| 22 | Silvery color metal | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 23 | Black plastic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 24 | Transparent plastic tape | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|---------------------------------------|---|--|--|--|-----------------------------------|
| 25 | Brown paper | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |
| 26 | Silvery color metal with grey coating | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 27 | Silvery color metal with grey coating | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|----------------------------------|---|--|--|--|-----------------------------------|
| 28 | Silvery color metal pin | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 29 | Black ceramic with green coating | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 30 | Black dry glue | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|-----------------------------|---|--|--|--|-----------------------------------|
| 31 | Yellow enamelled wire | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 32 | Copper color enamelled wire | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 33 | Silvery color metal | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|----------------------------|---|--|--|--|-----------------------------------|
| 34 | Silvery color metal | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |
| 35 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL IN IN --- --- --- --- | --- --- --- --- N.D. N.D. --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 Jul. 06, 2021 |
| 36 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL IN IN --- --- --- --- | --- --- --- --- N.D. N.D. --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 Jul. 06, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|---------------------|-----------------------|---------------------|--|--------------------|-----------------------------------|
| 37 | Beige plastic | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 14, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | IN | N.D. | Comply | |
| | | PBDEs | IN | N.D. | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |
| 38 | Grey soft plastic | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |
| 39 | Silvery color metal | Pb | BL | --- | Comply | Jul. 03, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | --- | --- | NA | |
| | | PBDEs | --- | --- | NA | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |

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|----------|---------------------------|-----------------------|---------------------|--|--------------------|-----------------------------------|
| 40 | Transparent plastic label | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 14, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |
| 41 | Black plastic tape | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |
| 42 | Yellow plastic tape | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |

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|----------|--------------------|---|--|--|--|-----------------------------------|
| 43 | Dk. grey ceramic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 44 | Black ceramic | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 45 | Black plastic tube | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- N.D. N.D. N.D. N.D. | Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply | Jul. 03, 2021 Jul. 06, 2021 |

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|----------|--------------------------|-----------------------|---------------------|--|--------------------|-----------------------------------|
| 46 | Translucent plastic tube | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |
| 47 | Copper color metal foil | Pb | BL | --- | Comply | Jul. 03, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | --- | --- | NA | |
| | | PBDEs | --- | --- | NA | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |
| 48 | Solder | Pb | BL | --- | Comply | Jul. 03, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | --- | --- | NA | |
| | | PBDEs | --- | --- | NA | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |

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|----------|----------------------------|-----------------------|---------------------|--|--------------------|-----------------------------------|
| 49 | Silvery color metal | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | IN | N.D. | Comply | |
| | | PBBs | --- | --- | NA | |
| | | PBDEs | --- | --- | NA | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |
| 50 | Black electronic component | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | IN | N.D. | Comply | |
| | | PBDEs | IN | N.D. | Comply | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |
| 51 | Black electronic component | Pb | BL | --- | Comply | Jul. 03, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | BL | --- | Comply | |
| | | PBDEs | BL | --- | Comply | |
| | | DBP | --- | --- | NA | |
| | | BBP | --- | --- | NA | |
| | | DEHP | --- | --- | NA | |
| | | DIBP | --- | --- | NA | |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|----------------------------|---|--|--|--|-----------------------------------|
| 52 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 53 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 54 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|----------------------------|---|--|--|--|-----------------------------------|
| 55 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 56 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 57 | Black electronic component | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|------------------|---|---|--|--|-----------------------------------|
| 58 | Brown capacitor | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 59 | Orange diode | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | OL ^① BL BL BL BL BL --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply NA NA NA NA | Jul. 03, 2021 |
| 60 | Solder | Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP | BL BL BL BL --- --- --- --- --- --- | --- --- --- --- --- --- --- --- --- --- | Comply Comply Comply Comply NA NA NA NA NA NA | Jul. 03, 2021 |

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| Part No. | Part Description | Restricted Substances | Result of EDXRF (1) | Result of Chemical Testing (2) (mg/kg) | Conclusion on RoHS | Data Submitted / Resubmitted Date |
|----------|------------------|-----------------------|---------------------|--|--------------------|-----------------------------------|
| 61 | Black PCB | Pb | BL | --- | Comply | Jul. 03, 2021 Jul. 06, 2021 |
| | | Cd | BL | --- | Comply | |
| | | Hg | BL | --- | Comply | |
| | | Cr(VI) | BL | --- | Comply | |
| | | PBBs | IN | N.D. | Comply | |
| | | PBDEs | IN | N.D. | Comply | |
| | | DBP | --- | N.D. | Comply | |
| | | BBP | --- | N.D. | Comply | |
| | | DEHP | --- | N.D. | Comply | |
| | | DIBP | --- | N.D. | Comply | |

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Remark:

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr⁶⁺) 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 | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $LOD < X < (150+3\sigma) \leq OL$ |
| Pb | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Hg | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Br | $BL \leq (300-3\sigma) < X$ | -- | $BL \leq (250-3\sigma) < X$ |
| Cr | $BL \leq (700-3\sigma) < X$ | $BL \leq (700-3\sigma) < X$ | $BL \leq (500-3\sigma) < X$ |

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not Regulated, NA = Not Applicable.

(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) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

| Test Items | Pb | Cd | Hg |
|------------|-------|-------|-------|
| Units | mg/kg | mg/kg | mg/kg |
| MDL | 2 | 2 | 2 |

The MDL for single compound of PBBs & PBDEs is 5 mg/kg, MDL of Cr⁶⁺ for polymer & composite sample is 2 mg/kg and MDL of DBP, BBP, DEHP and DIBP is 30mg/kg.

(c) When Cr⁶⁺ for metal sample is testing according to IEC 62321-7-1:2015, the unit is $\mu\text{g}/\text{cm}^2$, and the MDL is 0,10 $\mu\text{g}/\text{cm}^2$. When the Cr (VI) concentration is > the 0,13 $\mu\text{g}/\text{cm}^2$, the sample is positive for Cr(VI) and considered to contain Cr(VI); when the Cr (VI) concentration is N.D.(< the 0,10 $\mu\text{g}/\text{cm}^2$), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating; when the Cr (VI) concentration is \geq the 0,10 $\mu\text{g}/\text{cm}^2$ and \leq the 0,13 $\mu\text{g}/\text{cm}^2$, the result is considered to be inconclusive - Unavoidable coating variations may influence the determination.

(d) ^①RoHS Exemption: 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

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(3) The maximum permissible limit is quoted from the Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

| RoHS Restricted Substances | Maximum Concentration Value (by weight in homogenous materials) |
|---------------------------------------|--|
| Lead (Pb) | 0.1% |
| Cadmium (Cd) | 0.01% |
| Mercury (Hg) | 0.1% |
| Hexavalent Chromium (Cr VI) | 0.1% |
| Polybrominated biphenyls (PBBs) | 0.1% |
| Polybrominated diphenylethers (PBDEs) | 0.1% |
| Dibutyl Phthalate (DBP) | 0.1% |
| Benzylbutyl Phthalate (BBP) | 0.1% |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 0.1% |
| Diisobutyl Phthalate (DIBP) | 0.1% |

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RoHS Exemptions

| Exemptions | |
|--|---|
| RoHS Directive 2011/65/EU ANNEX III | |
| Exemption Items | Expires Date |
| 1, Mercury in single capped (compact) fluorescent lamps not exceeding (per burner): | |
| 1(a), For general lighting purposes < 30 W:3.5 mg | 2,5 mg shall be used per burner after 31 December 2012 |
| 1(b), For general lighting purposes ≥ 30 W and < 50W:3.5mg | |
| 1(c), For general lighting purposes ≥ 50 W and < 150 W: 5 mg | |
| 1(d), For general lighting purposes ≥ 150 W: 15 mg | |
| 1(e), For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7 mg | |
| 1(f), For special purposes: 5 mg | |
| 2(a), Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp): | |
| 2(a)(1), Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg | |
| 2(a)(2), Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg | |
| 2(a)(3), Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8):3.5mg | |
| 2(a)(4), Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg | Expires on 31 December 2012; 3,5 mg may be used per lamp after 31 December 2012 |
| 2(a)(5), Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg | |
| 2(b), Mercury in other fluorescent lamps not exceeding (per lamp): | |
| 2(b)(2), Non-linear halophosphate lamps (all diameters): 15 mg | Expires on 13 April 2016 |
| 2(b)(3), Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15mg | |
| 2(b)(4), Lamps for other general lighting and special purposes (e.g. induction lamps):15mg | |
| 3, Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): | |
| 3(a), Short length (≤500 mm):3.5mg | |
| 3(b), Medium length (> 500 mm and ≤ 1 500 mm):5mg | |
| 3(c), Long length (> 1 500 mm):13mg | |
| 4(a), Mercury in other low pressure discharge lamps (per lamp):15mg | |
| 4(b), Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60: | |
| 4(b) -I, P ≤155 W:30mg | |
| 4(b) -II, 155 W < P ≤ 405 W:40mg | |
| 4(b) -III, P > 405 W:40mg | |
| 4(c), Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner): | |
| 4(c)-I, P ≤ 155 W:25mg | |

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| Exemptions | |
|--|---|
| RoHS Directive 2011/65/EU ANNEX III | |
| Exemption Items | Expires Date |
| 4(c)-II, 155 W < P ≤ 405 W:30mg | |
| 4(c)-III, P > 405 W:40mg | |
| 4(d), Mercury in High Pressure Mercury (vapour) lamps (HPMV) | Expires on 13 April 2015 |
| 4(e), Mercury in metal halide lamps (MH) | |
| 4(f), Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex | |
| 5(a), Lead in glass of cathode ray tubes | |
| 5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight | |
| 6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight | |
| 6(b), Lead as an alloying element in aluminium containing up to 0,4 % lead by weight | |
| 6(c), Copper alloy containing up to 4 % lead by weight | |
| 7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) | |
| 7(b), Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications | |
| 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound | |
| 7(c)-II, Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher | |
| 7(c)-III, Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC | Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013 |
| 7(c)-IV, Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors | Expires on 21 July 2016 |
| 8(a), Cadmium and its compounds in one shot pellet type thermal cut-offs | Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012 |
| 8(b), Cadmium and its compounds in electrical contacts | |
| 9, Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution | |
| 9(b), Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications | |
| 11(a), Lead used in C-press compliant pin connector systems | May be used in spare parts for EEE placed on the market before 24 September 2010 |

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| Exemptions | |
|--|---|
| RoHS Directive 2011/65/EU ANNEX III | |
| Exemption Items | Expires Date |
| 11(b), Lead used in other than C-press compliant pin connector systems | Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013 |
| 12, Lead as a coating material for the thermal conduction module C-ring | May be used in spare parts for EEE placed on the market before 24 September 2010 |
| 13(a), Lead in white glasses used for optical applications | |
| 13(b), Cadmium and lead in filter glasses and glasses used for reflectance standards | |
| 14, Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight | Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011 |
| 15, Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages | |
| 16, Lead in linear incandescent lamps with silicate coated tubes | Expires on 1 September 2013 |
| 17, Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications | |
| 18(b), Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP ($\text{BaSi}_2\text{O}_5:\text{Pb}$) | |
| 21, Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses | |
| 23, Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less | May be used in spare parts for EEE placed on the market before 24 September 2010 |
| 24, Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors | |
| 25, Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring | |
| 29, Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC ⁽¹⁾ | |
| 30, Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more | |
| 31, Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting) | |
| 32, Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes | |
| 33, Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power transformers | |
| 34, Lead in cermet-based trimmer potentiometer elements | |

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| Exemptions | |
|---|-----------------------------|
| RoHS Directive 2011/65/EU ANNEX III | |
| Exemption Items | Expires Date |
| 37, Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body | |
| 38, Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide | |
| 39, Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm ² of light-emitting area) for use in solid state illumination or display systems | Expires on 1 July 2014 |
| 40, Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment | Expires on 31 December 2013 |
| Note: 1. ⁽¹⁾ OJ L 326, 29.12.1969, p.36. 2. For the purposes of Directive 2011/65/EU, a maximum concentration value of 0,1 % by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0,01 % by weight in homogeneous materials for cadmium shall be tolerated. | |

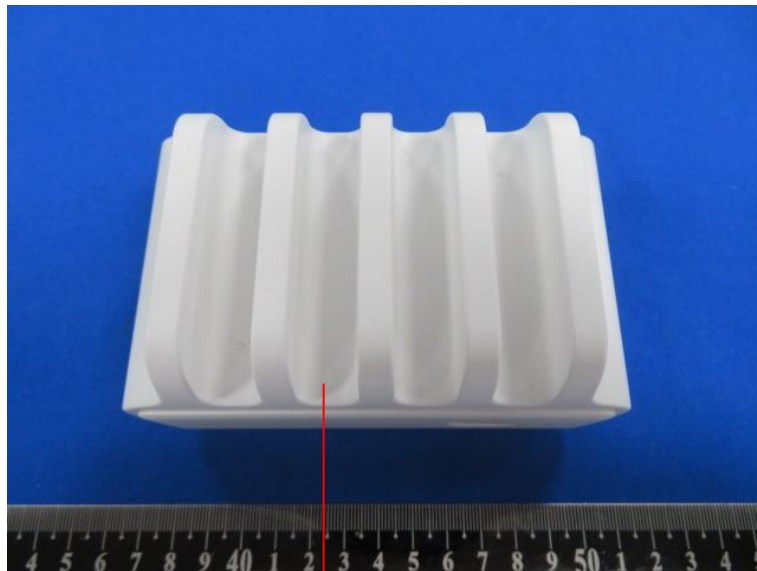
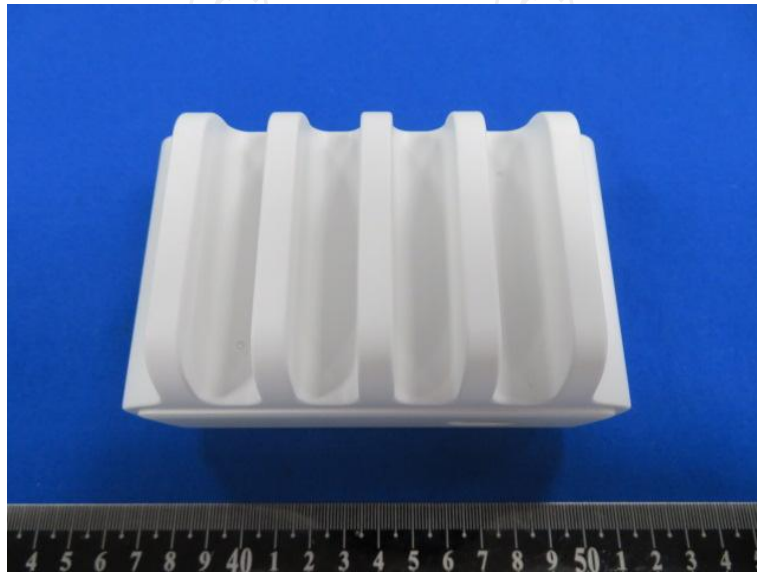
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Photo(s) of the sample(s)



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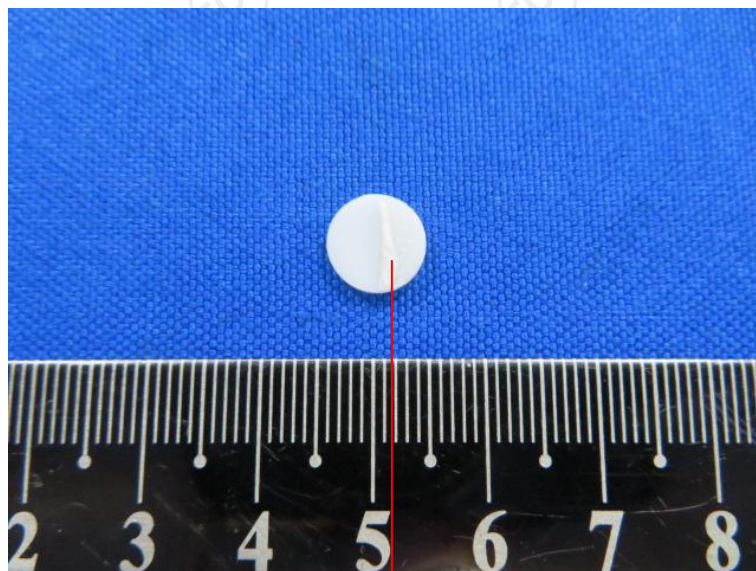
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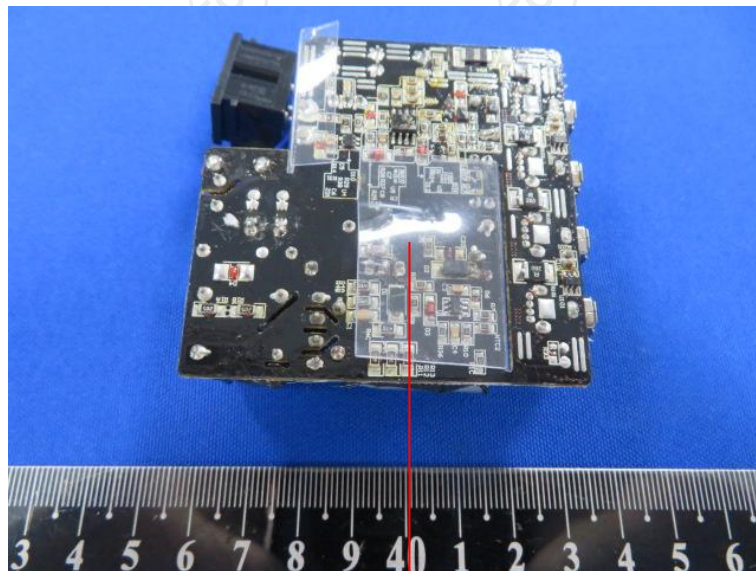
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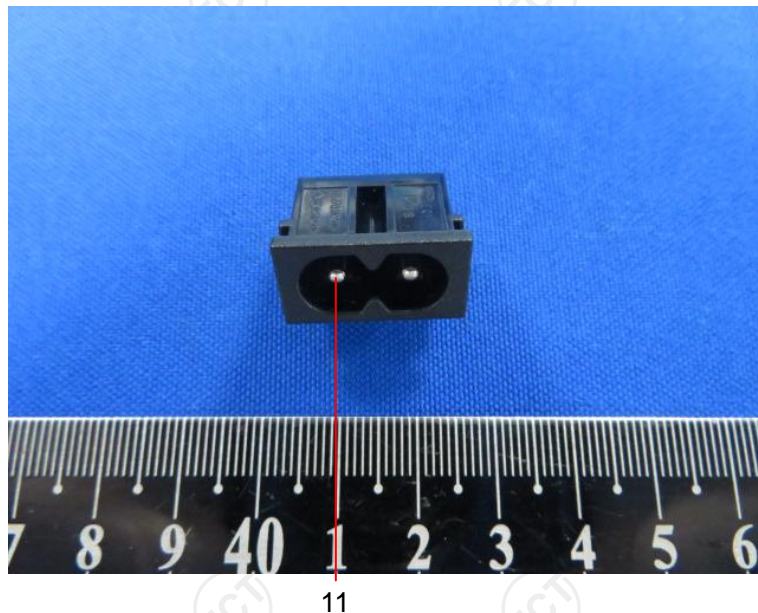
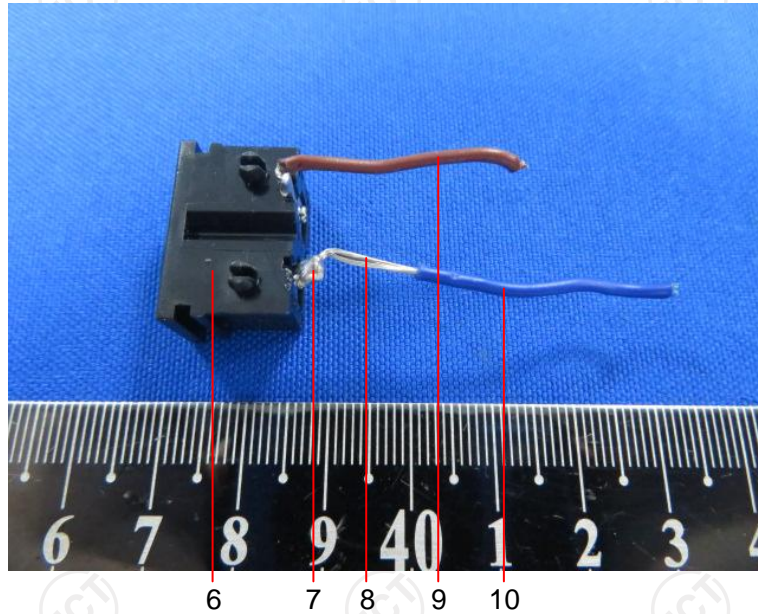
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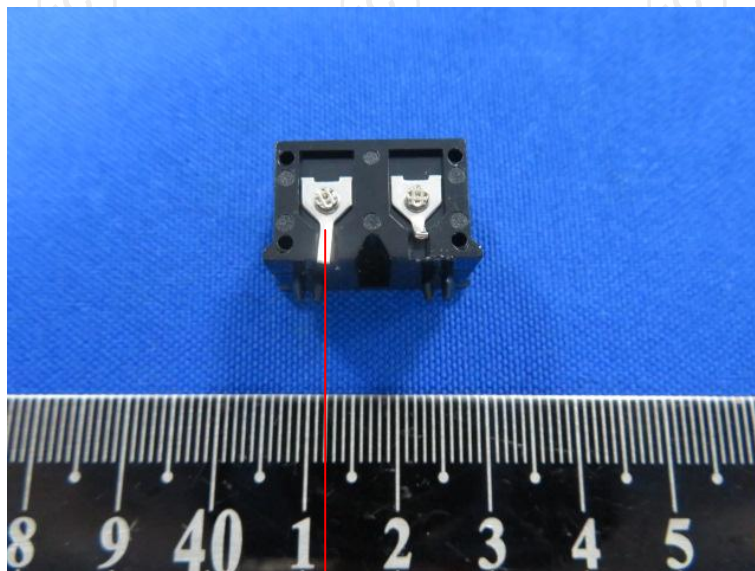


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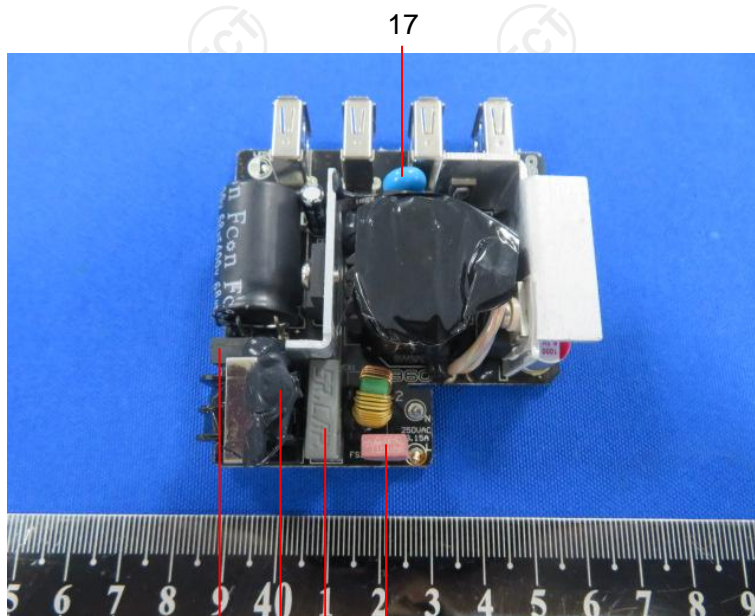
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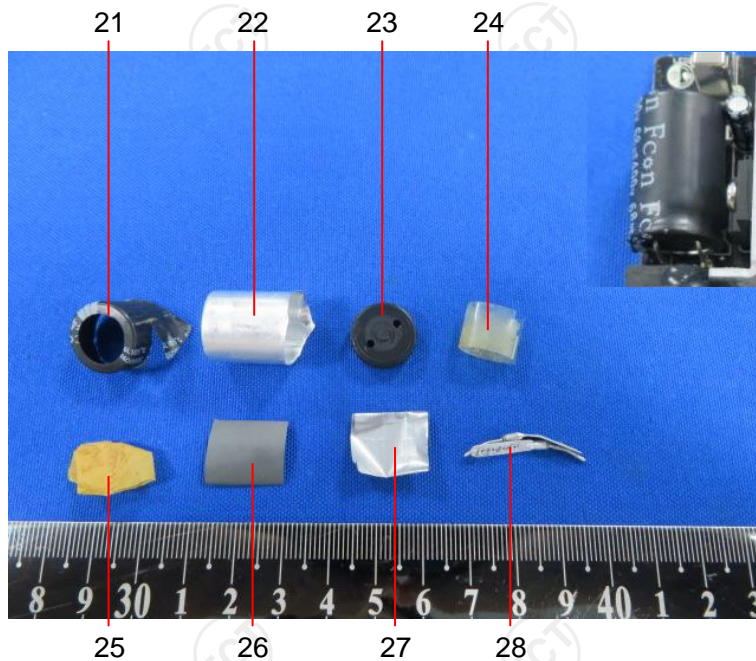
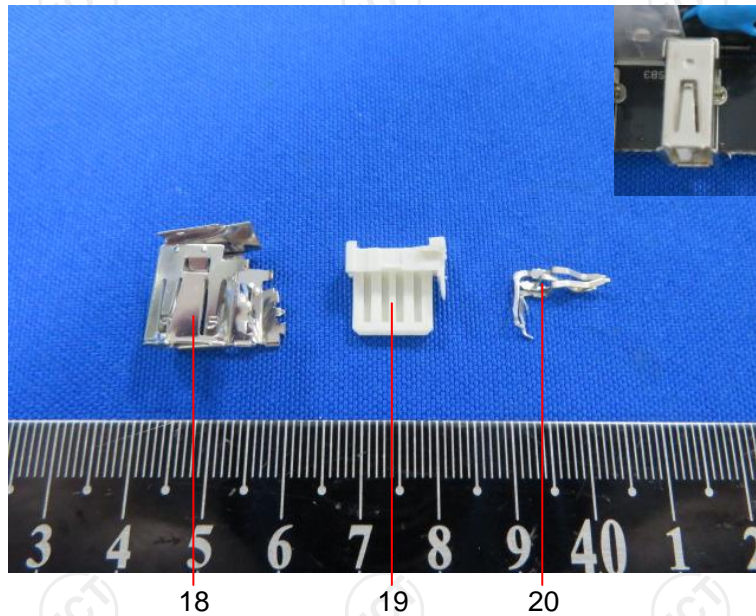
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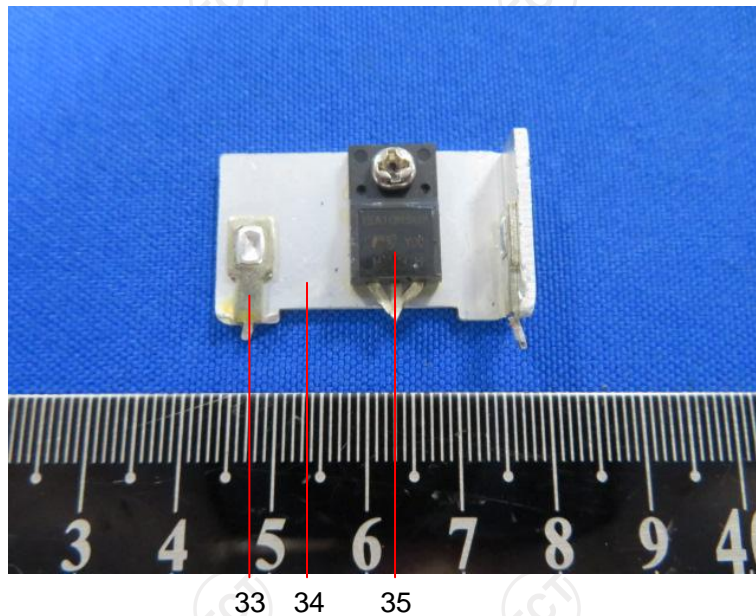
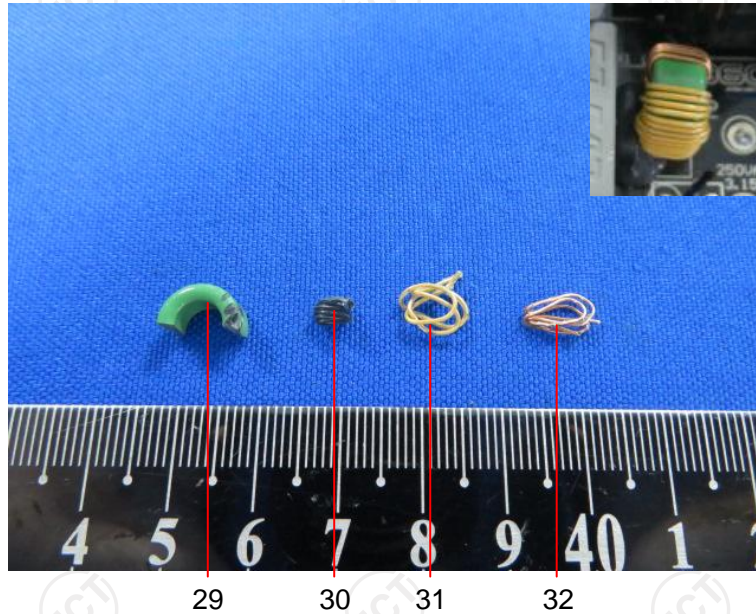


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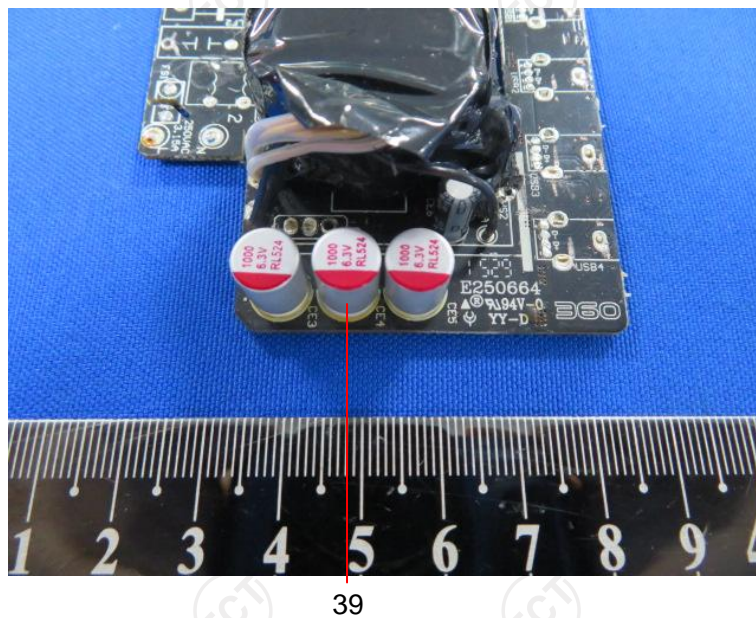
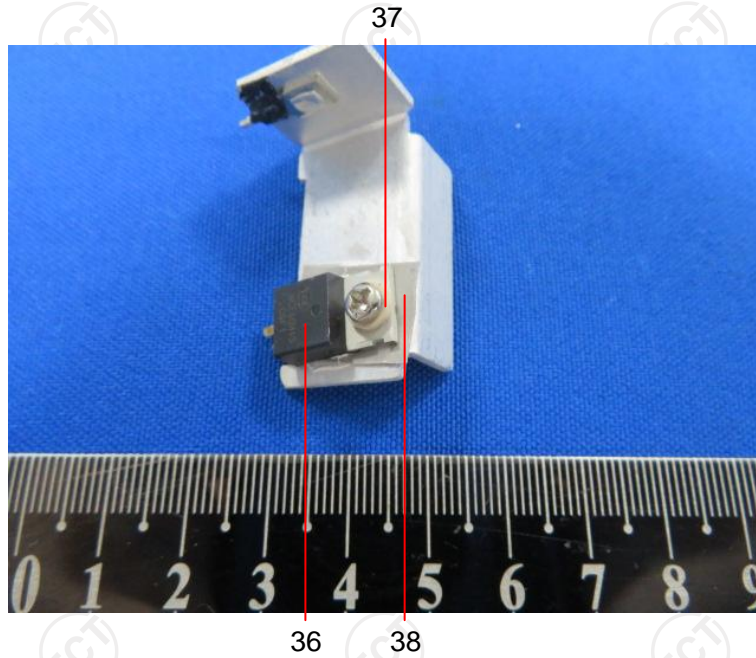


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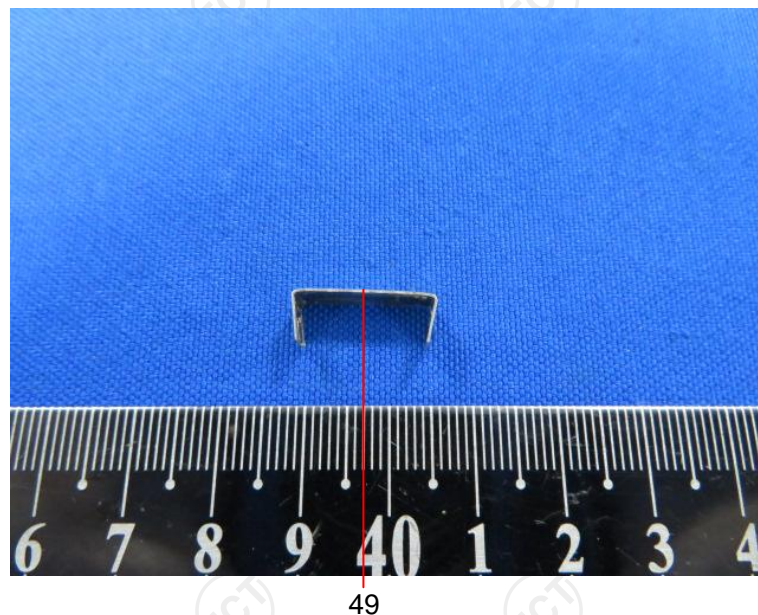
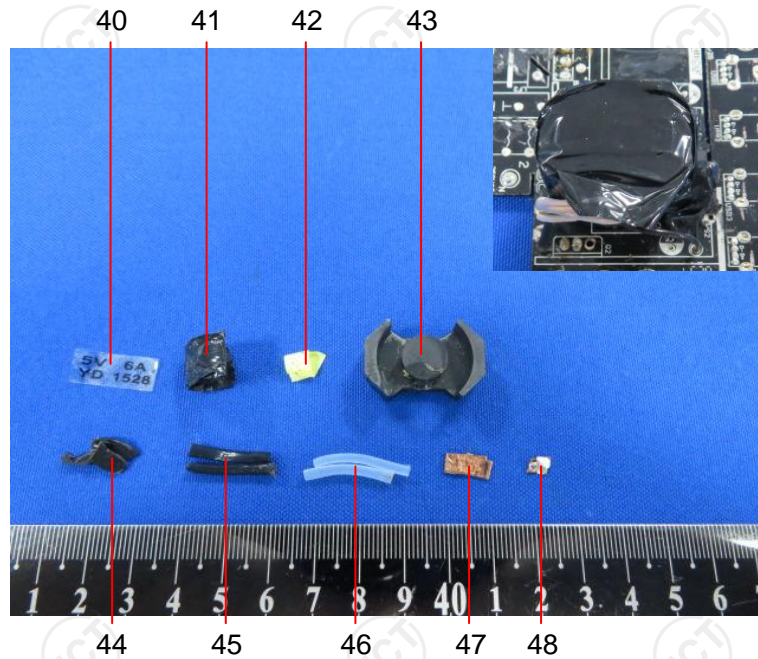


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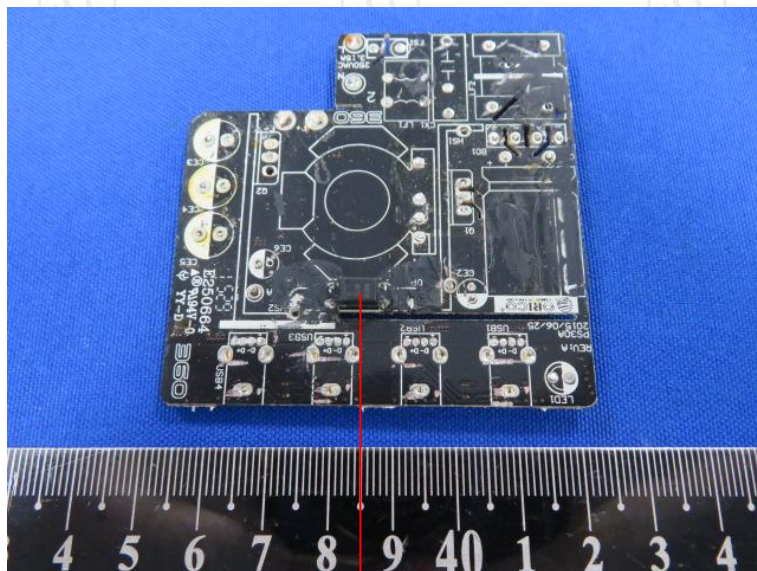


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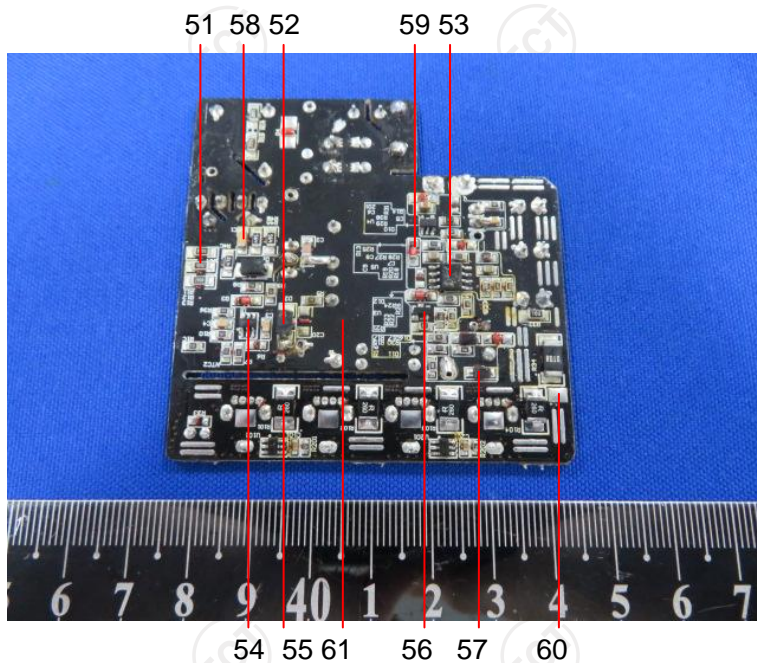
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*** End of Report ***

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