

Verification Report

No. NGBEC1502737101

Date: 11 Aug 2015

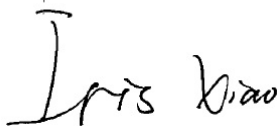
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SUZHOU RADIANT LIGHTING TECHNOLOGY CO., LTD

JIATAI RODA WEST, SHUANGLONG INDUSTRIAL PARK FENGHUANG TOWN, ZHANGJIAGANG CITY, JIANGSU, CHINA

Sample Name : led fire rated downlight
SGS Job No. : NP15-001981 - NB
Tested Basic Model No. : 5RS015-1
Tested Extended Model No. : 5RS015-2; 5RS015-3; 5RS015-4; 5RS015-5
Date of Sample Received : 21 Jul 2015
Verification Period : 21 Jul 2015 - 11 Aug 2015
Verification Requested : With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC.
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 sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU recasting 2002/95/EC.
Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

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



Iris Xiao
Approved Signatory



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Verification Method :

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles submitted by the Applicant
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in the report.
 - (1) With reference to IEC 62321-3-1: 2013, screening by EDXRF Spectroscopy
 - (2) Wet Chemical Test Method:
 - a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 - b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 - c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 - d. With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.
 - e. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

| Part No. | Part Description | BOM No. | Restricted Substances | Results of EDXRF (1) | Result of Wet Chemical Testing(2) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|-------------------------------|---------|---|------------------------------------|---|--|-------------------------------------|
| 1 | 5RS015-1-White coating | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |
| 2 | 5RS015-1-Silvery metal base | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL --- --- | --- --- --- --- --- --- | Comply Comply Comply Comply --- --- | 21 Jul 2015 |
| 3 | 5RS015-1-Black plastic washer | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |
| 4 | 5RS015-1-Gray metal cover | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL --- --- | --- --- --- --- --- --- | Comply Comply Comply Comply --- --- | 21 Jul 2015 |



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|----------|--|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 5 | 5RS015-1-Silvery metal cover | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | IN | Negative | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 6 | 5RS015-1-Golden metal cover | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 7 | 5RS015-1-Yellow/green plastic jacket(wire) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 8 | 5RS015-1-Blue plastic jacket(wire) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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| Part No. | Part Description | BOM No. | Restricted Substances | Results of EDXRF (1) | Result of Wet Chemical Testing(2) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|---|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 9 | 5RS015-1-Brown plastic jacket(wire) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 10 | 5RS015-1-Black plastic outer jacket(wire) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 11 | 5RS015-1-Silvery metal lump | | Pb | OL | 27124▲ | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 12 | 5RS015-1-Silver-blue metal screw | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | IN | Negative | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |



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|----------|--------------------------------|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 13 | 5RS015-1-Silvery metal screw | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 14 | 5RS015-1-Black plastic bracket | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | IN | ND | Comply | |
| | | | PBDEs | IN | ND | Comply | |
| 15 | 5RS015-1-Black plastic shell | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 16 | 5RS015-1-Black rubber ring | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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|----------|------------------------------|---------|---|------------------------------------|---|--|-------------------------------------|
| 17 | 5RS015-1-White plastic tie | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |
| 18 | 5RS015-1-Silvery metal ring | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL --- --- | --- --- --- --- --- --- | Comply Comply Comply Comply --- --- | 21 Jul 2015 |
| 19 | 5RS015-1-Silvery metal screw | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL --- --- | --- --- --- --- --- --- | Comply Comply Comply Comply --- --- | 21 Jul 2015 |
| 20 | 5RS015-1-Silvery metal piece | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL --- --- | --- --- --- --- --- --- | Comply Comply Comply Comply --- --- | 21 Jul 2015 |



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|----------|-------------------------------------|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 21 | 5RS015-1-Black plastic sheath | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 22 | 5RS015-1-White plastic shell | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | IN | ND | Comply | |
| | | | PBDEs | IN | ND | Comply | |
| 23 | 5RS015-1-Red plastic jacket(wire) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 24 | 5RS015-1-White plastic jacket(wire) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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|----------|--|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 25 | 5RS015-1-Yellow plastic piece(relay)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 26 | 5RS015-1-Black plastic bracket(relay)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 27 | 5RS015-1-Orange plastic jacket(capacitor)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 28 | 5RS015-1-Brown capacitor body(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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|----------|---|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 29 | 5RS015-1-Brown plastic jacket(capacitor)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 30 | 5RS015-1-Black IC body | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 31 | 5RS015-1-Black plastic jacket(inductor)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 32 | 5RS015-1-Blue capacitor body(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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| Part No. | Part Description | BOM No. | Restricted Substances | Results of EDXRF (1) | Result of Wet Chemical Testing(2) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|---|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 33 | 5RS015-1-Black diode body(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | IN | ND | Comply | |
| | | | PBDEs | IN | ND | Comply | |
| 34 | 5RS015-1-Green PCB body | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | IN | ND | Comply | |
| | | | PBDEs | IN | ND | Comply | |
| 35 -C | 5RS015-1-Silvery metal soldering tin(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 03 Aug 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 36 | 5RS015-1-Black rectifier bridge body(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | IN | ND | Comply | |
| | | | PBDEs | IN | ND | Comply | |



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| Part No. | Part Description | BOM No. | Restricted Substances | Results of EDXRF (1) | Result of Wet Chemical Testing(2) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|-------------------------------|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 37 | 5RS015-1-Silvery metal washer | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | IN | Negative | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 38 | 5RS015-1-Silvery metal screw | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 39 | 5RS015-1-White plastic piece | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 40 | 5RS015-1-White PCB body | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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|----------|--------------------------------|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 41 | 5RS015-1-White plastic bracket | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 42 | 5RS015-1-White coating | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 43 | 5RS015-1-Gray metal base | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 44 | 5RS015-1-Silvery metal spring | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |



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| Part No. | Part Description | BOM No. | Restricted Substances | Results of EDXRF (1) | Result of Wet Chemical Testing(2) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|----------------------------------|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 45 | 5RS015-2-Silver-blue metal screw | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | IN | Negative | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 46 | 5RS015-2-Silvery metal screw | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 47 | 5RS015-2-Green plastic bracket | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 48 | 5RS015-2-Green plastic shell | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |



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|----------|--|---------|---|----------------------------------|---|--|-------------------------------------|
| 49 | 5RS015-3-Yellow plastic jacket(capacitor)(PCB) | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |
| 50 | 5RS015-3-Black audion body(PCB) | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |
| 51 | 5RS015-4-White rubber washer | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |
| 52 | 5RS015-4-Black plastic button(switch)(PCB) | | Pb Cd Hg Cr(VI) PBBs PBDEs | BL BL BL BL BL BL | --- --- --- --- --- --- | Comply Comply Comply Comply Comply Comply | 21 Jul 2015 |



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| Part No. | Part Description | BOM No. | Restricted Substances | Results of EDXRF (1) | Result of Wet Chemical Testing(2) (mg/kg) | Conclusion on EU RoHS | Sample Submitted / Resubmitted Date |
|----------|---|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 53 | 5RS015-4-Silvery metal shell(switch)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 54 | 5RS015-4-Gray metal spring(switch)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 55 | 5RS015-4-Gray metal ball(switch)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | IN | Negative | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |
| 56 | 5RS015-4-Silvery metal piece(switch)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |



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|----------|--|---------|-----------------------|----------------------|---|-----------------------|-------------------------------------|
| 57 | 5RS015-4-Brown plastic plate(switch)(PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | BL | --- | Comply | |
| | | | PBDEs | BL | --- | Comply | |
| 58 | 5RS015-4-Silvery metal elastic piece(switch) (PCB) | | Pb | BL | --- | Comply | 21 Jul 2015 |
| | | | Cd | BL | --- | Comply | |
| | | | Hg | BL | --- | Comply | |
| | | | Cr(VI) | BL | --- | Comply | |
| | | | PBBs | --- | --- | --- | |
| | | | PBDEs | --- | --- | --- | |



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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 | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$ | $LOD < X < (150+3\sigma) \leq OL$ |
| 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.

(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) 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 |
|-----------|-------|-------|-------|
| Unit | mg/kg | mg/kg | mg/kg |
| MDL | 10 | 10 | 10 |

The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer and composite sample is 10 mg/kg.

- (c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.



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(d) ▲=According to the declaration from the client, Lead (Pb) in No.11 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight.

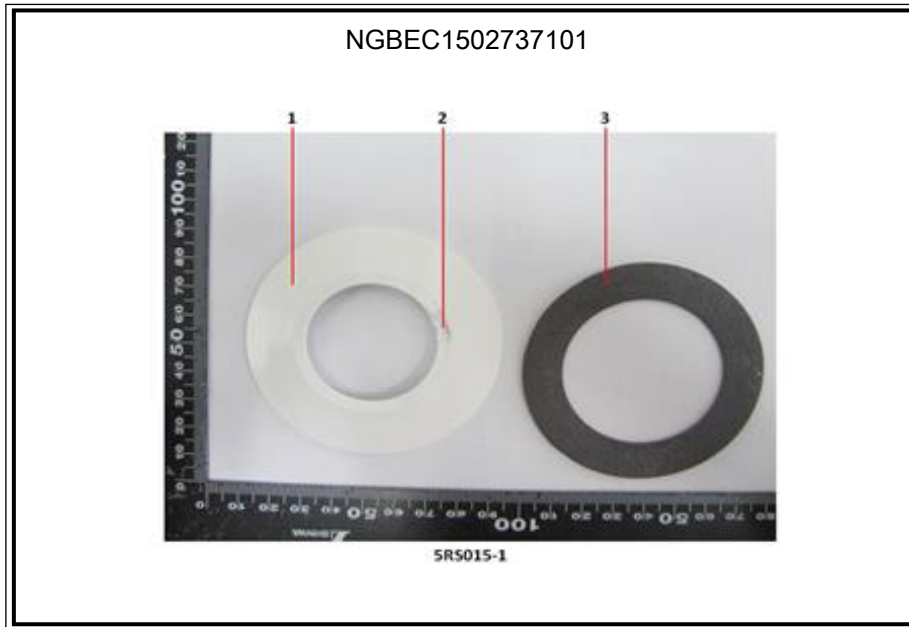
(3) According to the declaration from applicant, the materials of Model "5RS015-1" are the same as those in Model "5RS015-2, 5RS015-3, 5RS015-4, 5RS015-5" and its results for support the results of Model "5RS015-2, 5RS015-3, 5RS015-4, 5RS015-5". The applicant will take the responsibility of all discrepancy and risk.



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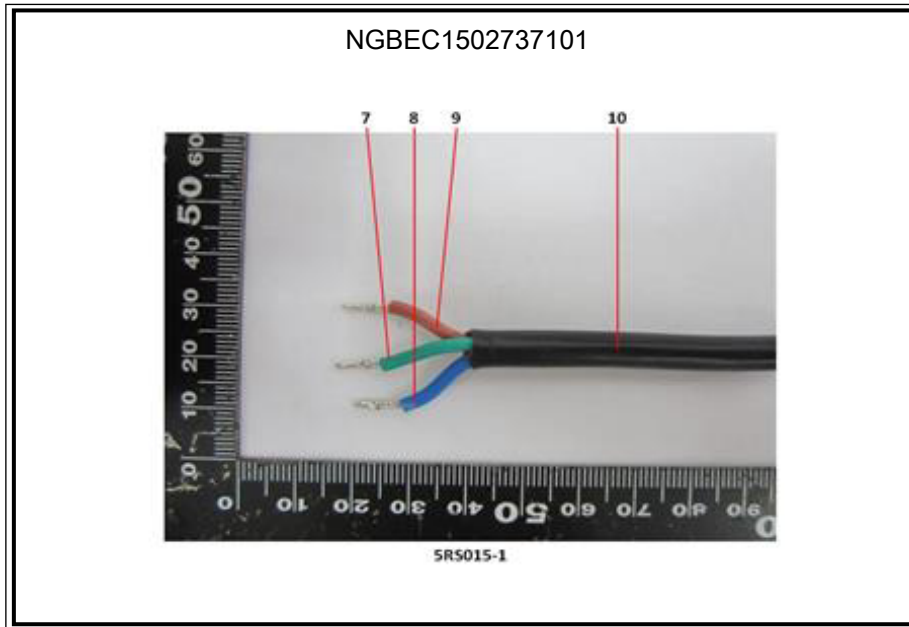
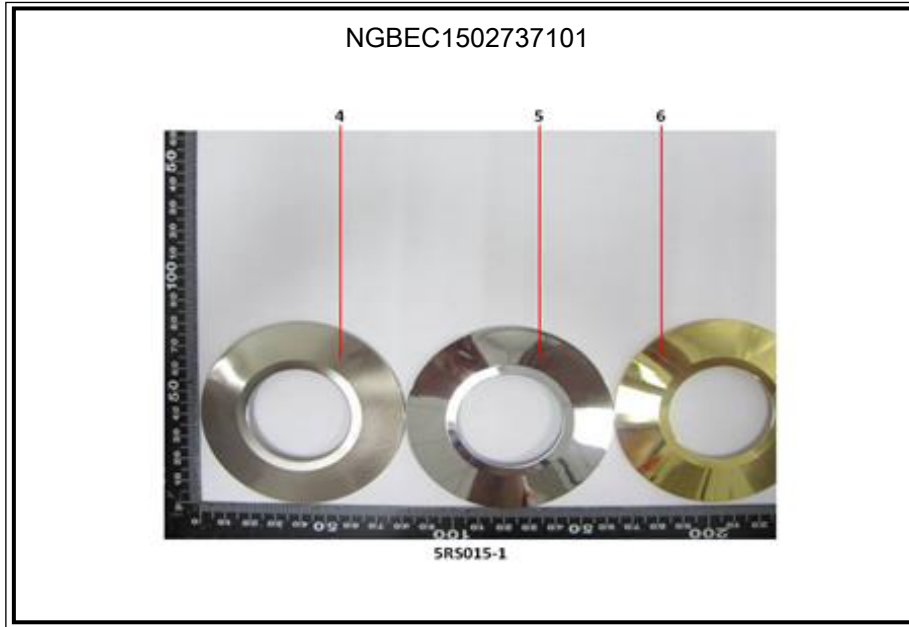
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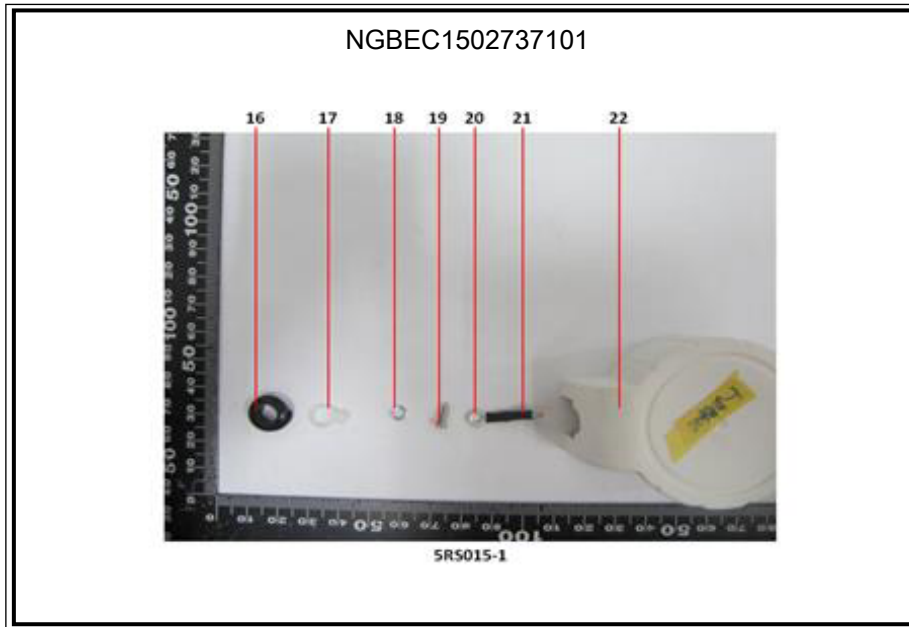
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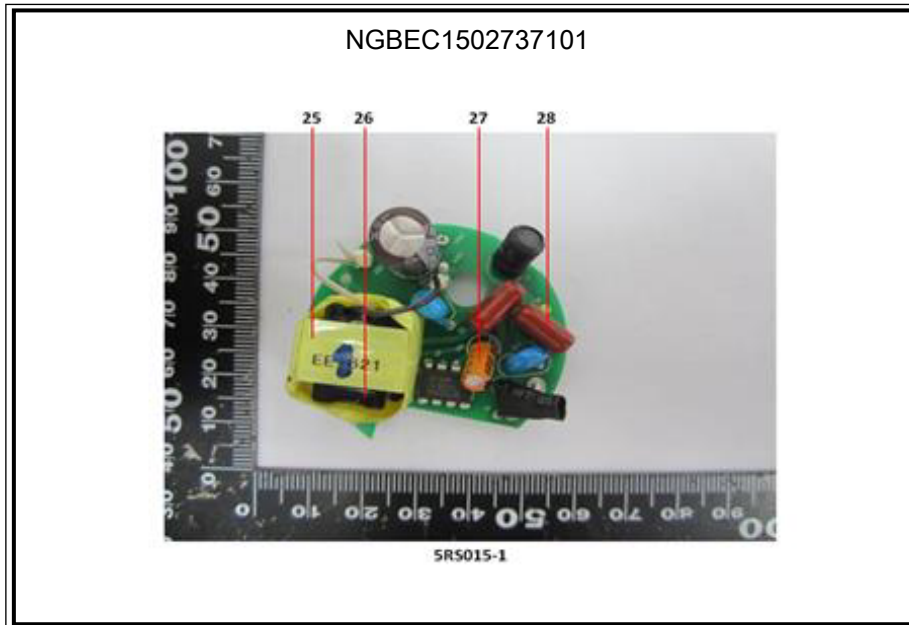
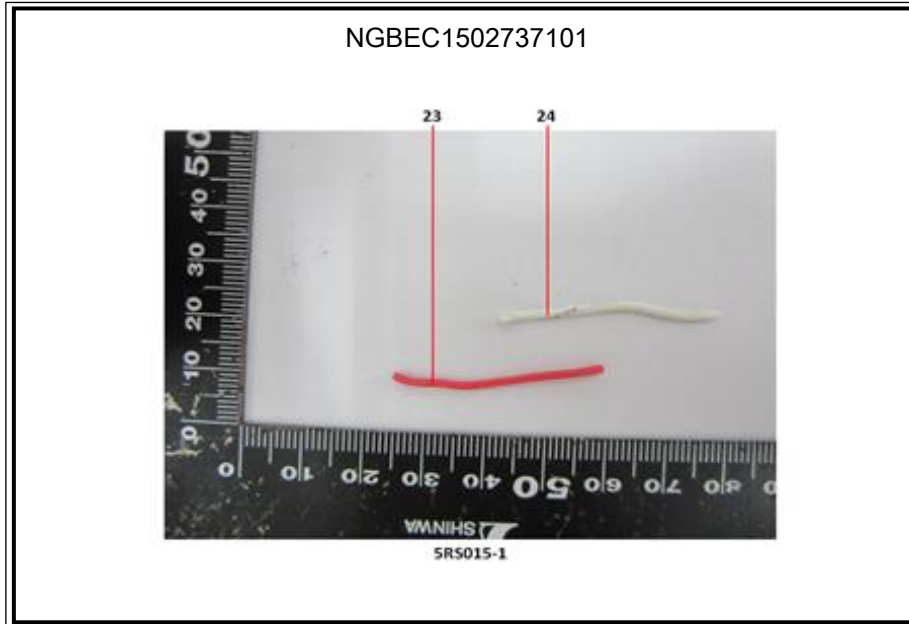
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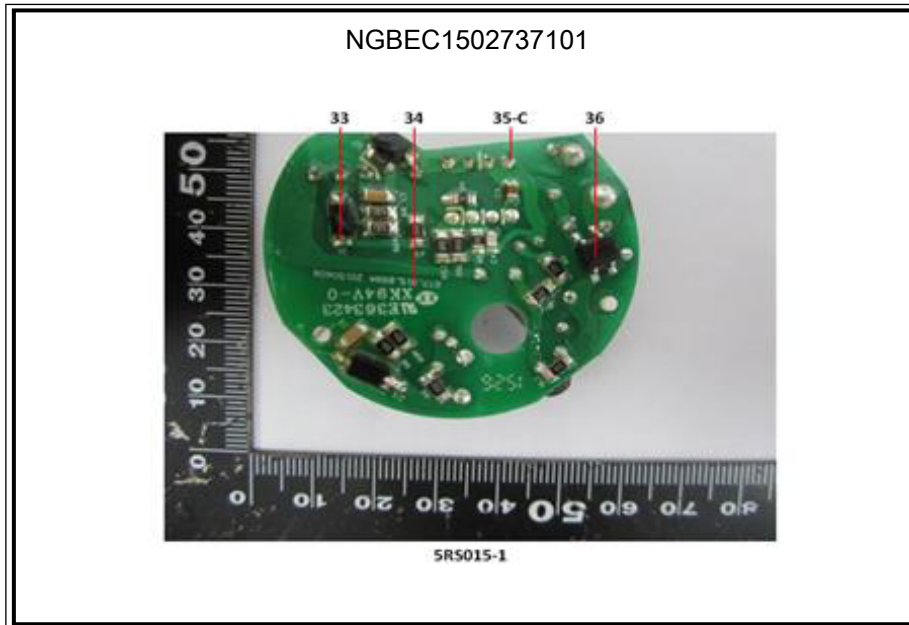
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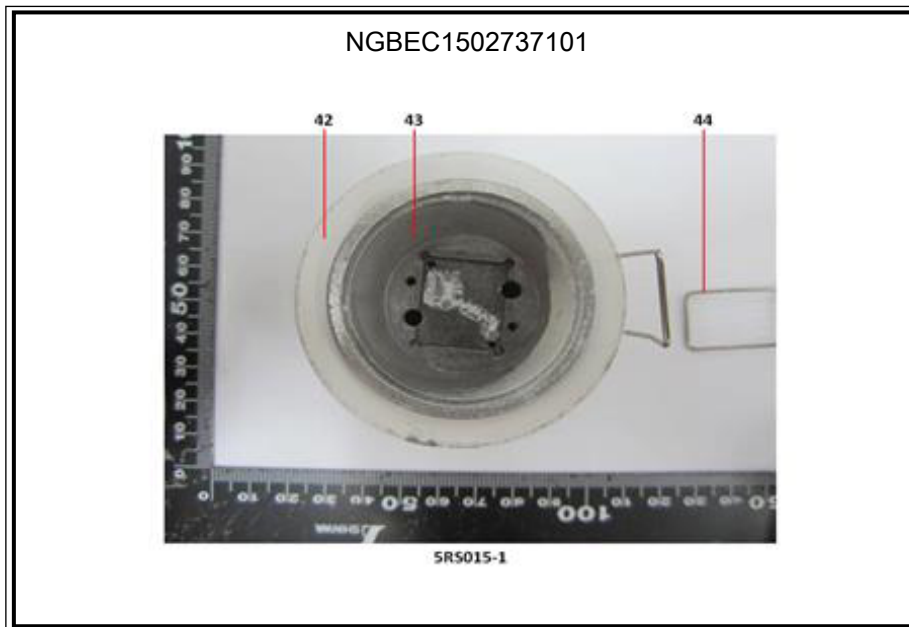
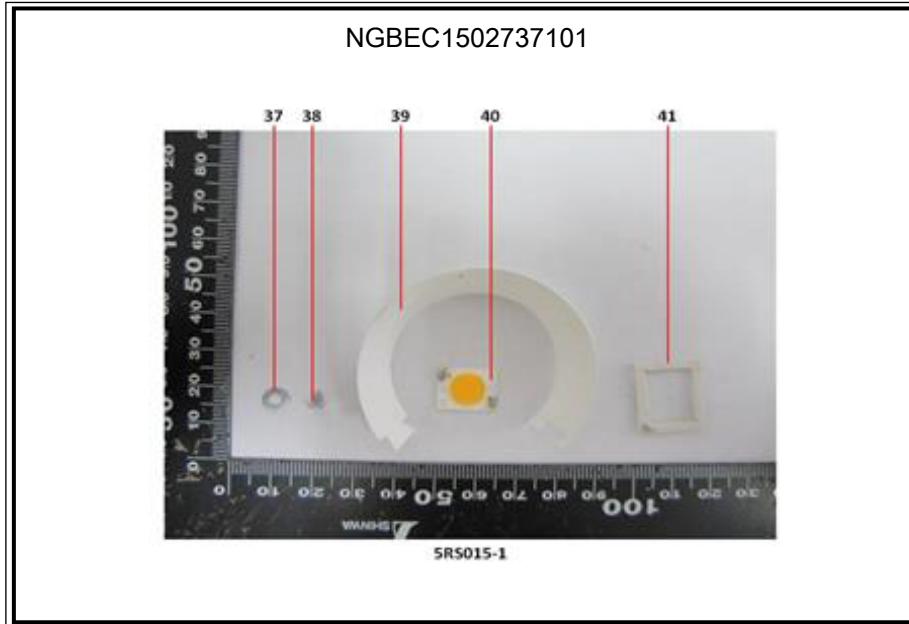
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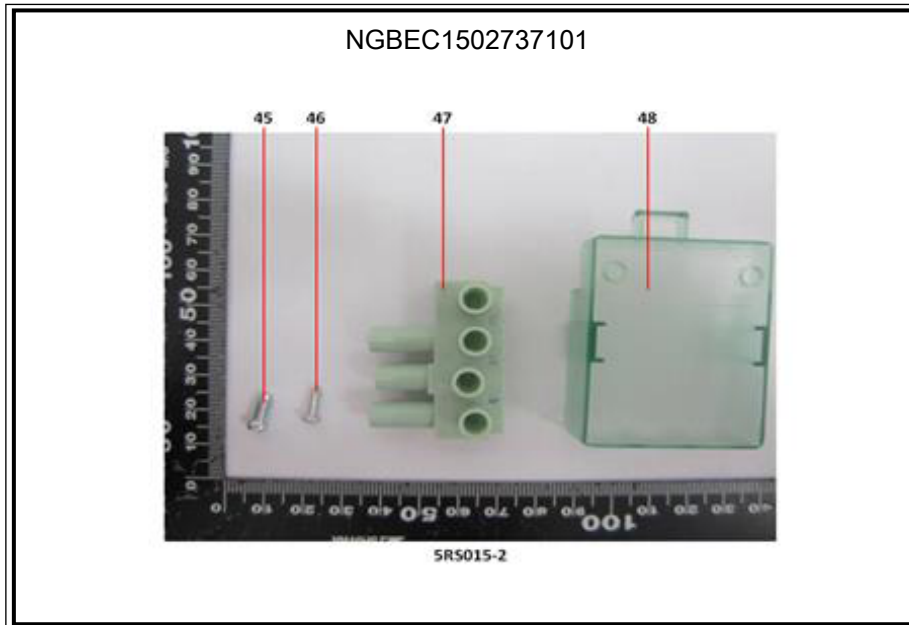
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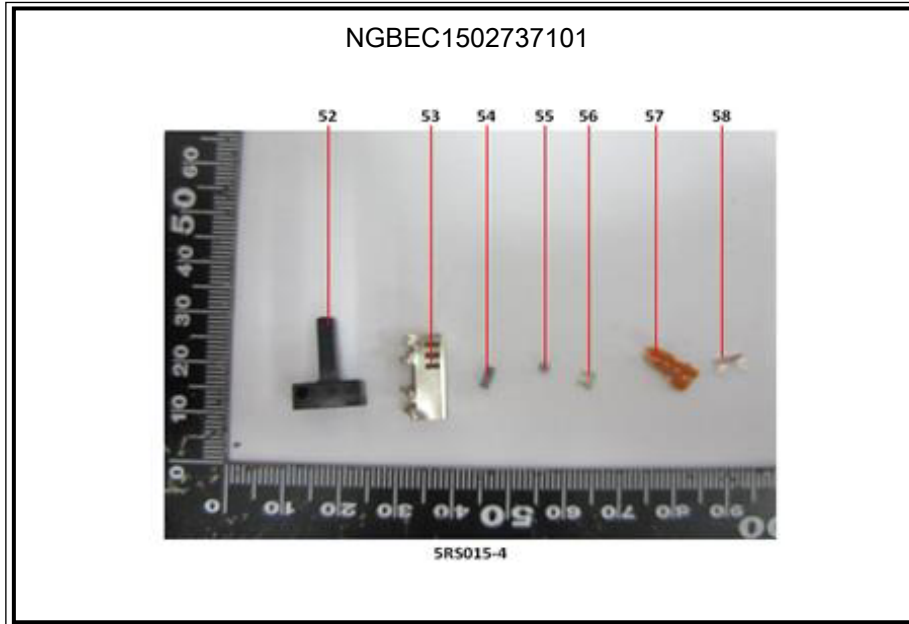
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