

Verification Report

No. SZXEC1901322101

Date: 24 Jun 2019

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DONGGUAN BOFA PHOTOELECTRIC TECHNOLOGY CO.,LTD.

XINNAN ZIJING INDUSTRY PART,QISHI TOWN,DONGGUAN,GUANGDONG,CHINA

This report is to supersede test report SZXEC1801000401

Sample Name : LED FILAMENT BULB
SGS Job No. : RP19-012477 - SZ
Tested Basic Model No. T200-5CT-RLED-NW
(P.O. No.) :
Tested Extended Model No. G300-LED-NW, BT180-LED-NW, R163-LED-NW
(P.O. No.) :
Client Ref. Info. : Please See Remark (5)
Date of Sample Received : 28 Jun 2018
Verification Period : 28 Jun 2018 - 27 Aug 2018
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

Tina

Tina Fan
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.
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
 - 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+A1:2017, determination of Mercury by ICP-OES
 - d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
 - e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
3. With reference to IEC 62321-8:2017, determination of phthalates 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	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	T200-5CT-RLED-NW-Transparent glass	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
2	T200-5CT-RLED-NW-Golden metal part	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
3	T200-5CT-RLED-NW-Black plastic part	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	



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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
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
4	T200-5CT-RLED-NW-Black glass	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
5	T200-5CT-RLED-NW-Silvery metal solder	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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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
6	T200-5CT-RLED-NW- Yellow dry glue	Pb	BL	---	---	Comply	28 Jun 2018
		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	
7	T200-5CT-RLED-NW- Transparent glass	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
8	T200-5CT-RLED-NW- Silvery metal wire	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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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
		BBP DEHP DIBP	--- --- ---	--- --- ---	--- --- ---	--- --- ---	
9	T200-5CT-RLED-NW-Transparent plastic tube	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	28 Jun 2018
10	T200-5CT-RLED-NW-Yellow LED strip light	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	28 Jun 2018



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11	T200-5CT-RLED-NW-Dk. silvery metal wire	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
12	T200-5CT-RLED-NW- Translucent rubber part	Pb	BL	---	---	Comply	28 Jun 2018
		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 -C	T200-5CT-RLED-NW- Black "IC" body	Pb	BL	---	---	Comply	28 Jun 2018 13 Jul 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	ND	Comply	



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		BBP	---	---	ND	Comply	
		DEHP	---	---	ND	Comply	
		DIBP	---	---	ND	Comply	
14	T200-5CT-RLED-NW-Black "IC" body	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
15 -C	T200-5CT-RLED-NW-Yellow plastic sheet w/ black surface	Pb	BL	---	---	Comply	28 Jun 2018 13 Jul 2018
		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	



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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
16	T200-5CT-RLED-NW-Black rubber stopper	Pb	BL	---	---	Comply	28 Jun 2018
		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			
17	T200-5CT-RLED-NW-White "PCB"	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
DIBP	---	---	---	---			
18	T200-5CT-RLED-NW-Silvery metal solder	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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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
		BBP DEHP DIBP	--- --- ---	--- --- ---	--- --- ---	--- --- ---	
19	G300-LED-NW-Transparent glass w/ grey surface	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN BL BL --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- ND --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply --- --- --- ---	28 Jun 2018
20	G300-LED-NW-Black plastic part	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- ND ND --- --- --- ---	Comply Comply Comply Comply Comply Comply Comply Comply Comply Comply	28 Jun 2018



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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
21	G300-LED-NW-Beige dry glue	Pb	BL	---	---	Comply	28 Jun 2018
		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			
22	G300-LED-NW-Grey rubber part	Pb	BL	---	---	Comply	28 Jun 2018
		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			
23	G300-LED-NW-White dry glue	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	ND	Comply	



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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
		BBP	---	---	ND	Comply	
		DEHP	---	---	ND	Comply	
		DIBP	---	---	ND	Comply	
24	G300-LED-NW-Black plastic heat shrinkable tube	Pb	BL	---	---	Comply	28 Jun 2018
		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	
25	G300-LED-NW-Black plastic heat shrinkable tube	Pb	BL	---	---	Comply	28 Jun 2018
		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	



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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
26	G300-LED-NW-Black "IC" body	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
DIBP	---	BL	---	Comply			
27	G300-LED-NW-Black "IC" body	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
DIBP	---	BL	---	Comply			
28 -C	G300-LED-NW-Purple plastic sheet w/ white surface	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	13 Jul 2018
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	ND	Comply	



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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
		BBP	---	---	ND	Comply	
		DEHP	---	---	ND	Comply	
		DIBP	---	---	ND	Comply	
29	G300-LED-NW-Green "PCB"	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
30	G300-LED-NW-Green "PCB"	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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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
31	G300-LED-NW-Silvery metal solder	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
32	G300-LED-NW-Silvery metal frame	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	IN	---	ND	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
33	G300-LED-NW-Yellow LED strip light	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	ND	Comply	



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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
		BBP	---	---	ND	Comply	
		DEHP	---	---	ND	Comply	
		DIBP	---	---	ND	Comply	
34	R163-LED-NW-Transparent glass w/ white surface	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
35	R163-LED-NW-Silvery metal part	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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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
36 -C	R163-LED-NW-Black plastic heat shrinkable tube	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	13 Jul 2018
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	---	ND	Comply	
		BBP	---	---	ND	Comply	
		DEHP	---	---	ND	Comply	
DIBP	---	---	ND	Comply			
37	R163-LED-NW-White dry glue	Pb	BL	---	---	Comply	28 Jun 2018
		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			
38 -C	R163-LED-NW-Purple plastic sheet w/ white surface	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	13 Jul 2018
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	ND	Comply	



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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
		BBP	---	---	ND	Comply	
		DEHP	---	---	ND	Comply	
		DIBP	---	---	ND	Comply	
39	R163-LED-NW-Black "IC" body	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
		DIBP	---	BL	---	Comply	
40	R163-LED-NW-Green "PCB"	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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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
41	R163-LED-NW-Silvery metal solder	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
42	R163-LED-NW-Yellow LED strip light	Pb	BL	---	---	Comply	28 Jun 2018
		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	
43	BT180-LED-NW-Silvery metal part	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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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
		BBP DEHP DIBP	--- --- ---	--- --- ---	--- --- ---	--- --- ---	
44	BT180-LED-NW-Grey ceramic part	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply --- --- --- ---	28 Jun 2018
45	BT180-LED-NW-Silvery metal part	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply --- --- --- --- --- ---	28 Jun 2018



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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
46	BT180-LED-NW-White dry glue	Pb	BL	---	---	Comply	28 Jun 2018
		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			
47	BT180-LED-NW-Black "IC" body	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	BL	---	Comply	
		BBP	---	BL	---	Comply	
		DEHP	---	BL	---	Comply	
DIBP	---	BL	---	Comply			
48	BT180-LED-NW-White "PCB"	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	IN	---	ND	Comply	
		PBDEs	IN	---	ND	Comply	
		DBP	---	---	---	---	



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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
		BBP DEHP DIBP	--- --- ---	--- --- ---	--- --- ---	--- --- ---	
49	BT180-LED-NW-White "PCB"	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- ND ND --- --- --- ---	Comply Comply Comply Comply Comply Comply --- --- --- ---	28 Jun 2018
50	BT180-LED-NW-Silvery metal solder	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	Comply Comply Comply Comply --- --- --- --- --- ---	28 Jun 2018



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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
51	BT180-LED-NW-Transparent glass	Pb	BL	---	---	Comply	28 Jun 2018
		Cd	BL	---	---	Comply	
		Hg	BL	---	---	Comply	
		Cr(VI)▼	BL	---	---	Comply	
		PBBs	BL	---	---	Comply	
		PBDEs	BL	---	---	Comply	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
52	BT180-LED-NW-Yellow LED strip light	Pb	BL	---	---	Comply	28 Jun 2018
		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 \leq (70-3 σ) < X < (130+3 σ) \leq OL	BL \leq (70-3 σ) < X < (130+3 σ) \leq OL	LOD < X < (150+3 σ) \leq OL
Pb	BL \leq (700-3 σ) < X < (1300+3 σ) \leq OL	BL \leq (700-3 σ) < X < (1300+3 σ) \leq OL	BL \leq (500-3 σ) < X < (1500+3 σ) \leq OL
Hg	BL \leq (700-3 σ) < X < (1300+3 σ) \leq OL	BL \leq (700-3 σ) < X < (1300+3 σ) \leq OL	BL \leq (500-3 σ) < X < (1500+3 σ) \leq OL
Br	BL \leq (300-3 σ) < X	--	BL \leq (250-3 σ) < X
Cr	BL \leq (700-3 σ) < X	BL \leq (700-3 σ) < X	BL \leq (500-3 σ) < 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 \leq 600 < X
BBP	BL \leq 600 < X
DEHP	BL \leq 600 < X
DIBP	BL \leq 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/cm².

(c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm².
 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/cm²).
 The coating is considered a non-CrVI based coating
- c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(4) According to the declaration from applicant, the materials of other parts in Models "G300-LED-NW, BT180-LED-NW, R163-LED-NW" are the same as those in Model "T200-5CT-RLED-NW", and the results of Model "T200-5CT-RLED-NW" for support the results of other parts in Models "G300-LED-NW, BT180-LED-NW, R163-LED-NW". The applicant will take the responsibility of all discrepancy and risk.



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(5) According to the declaration from applicant, the materials in Models as below are the same as "T200-5CT-RLED-NW". The applicant will take the responsibility of all discrepancy and risk.

A15LED-NW,A15RLED-NW,A17LED-NW,A17RLED-NW,A19LED-NW,A19RLED-NW,
 A21LED-NW,A21RLED-NW,A23LED-NW,A23RLED-NW,A25LED-NW,A25RLED-NW,
 HLA60LED-NW,HLA60RLED-NW,A100LED-NW,A100RLED-NW,A165LED-NW,
 A165RLED-NW,A165WXRLED-NW,BT55LED-NW,BT55RLED-NW,BT58LED-NW,
 BT58RLED-NW,BT120LED-NW,BT120RLED-NW,BT180LED-NW,BT180RLED-NW,
 C7LED-NW,C9LED-NW,C20LED-NW,C22LED-NW,C22LED-NW,C32LED-NW,
 C32RLED-NW,C40LED-NW,CM95LED-NW,CM95RLED-NW,C48LED-NW,C55LED-NW,
 C55RLED-NW,C70LED-NW,C70RLED-NW,C75SGLED-NW,C75SGRLED-NW,
 C90LED-NW,C90RLED-NW,C95SGLED-NW,C95SGRLED-NW,C100LED-NW,
 C100RLED-NW,C125LED-NW,C125RLED-NW,C140LED-NW,C140RLED-NW,C150LED-NW,
 C150RLED-NW,CT120LED-NW,CT120RLED-NW,CT180LED-NW,CT180RLED-NW,
 CM125LED-NW,CM125RLED-NW,CM150LED-NW,CM150RLED-NW,C150SGLED-NW,
 C150SGRLED-NW,C35LED-NW,C35RLED-NW,C80LED-NW,D80LED-NW,D80RLED-NW,
 D85LED-NW,D85RLED-NW,D110LED-NW,D110RLED-NW,D120LED-NW,D120RLED-NW,
 D125LED-NW,D125RLED-NW,DG125LED-NW,DG125RLED-NW,DG150LED-NW,



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DG150RLED-NW,DBP95LED-NW,DBP95RLED-NW,DBJ95LED-NW,DBJ95RLED-NW,
 DBJ110LED-NW,DBJ110RLED-NW,R63LED-NW,R63RLDE-NW,R50LED-NW,R80LED-NW,
 R95LED-NW,R125LED-NW,R163LED-NW,R163RLED-NW,R180LED-NW,R180RLED-NW,
 R250LED-NE,R250RLED-NW,R300LED-NW,R300RLED-NW,BR162LED-NW,BR162RLED-NW,
 BT75LED-NW,BT75RLED-NW,ST26LED-NW,ST28LED-NW,ST38LED-NW,ST40LED-NW,
 ST45LED-NW,ST48LED-NW, ST58LED-NW,ST58RLED-NW,ST64LED-NW,ST64RLED-NW,
 ST80LED-NW,ST80RLED-NW,ST95LED-NW,ST95RLED-NW,ST125LED-NW,ST125RLED-NW,
 ST165LED-NW,ST165RLED-NW,T20LED-NW,T20RLED-NW,T25LED-NW,T25RLED-NW,
 T26LED-NW,T26-RLED-NW,T28LED-NW,T28RLED-NW,T30LED-NW,T30-RLED-NW,
 T32LED-NW,T32RLED-NW,T38LED-NW,T38RLED-NW,T45LED-NW,T45RLED-NW,
 T50LED-NW,T63LED-NW,TR83LED-NW,TT60LED-NW,TT60RLED-NW,TT50LED-NW,
 TT50RLED-NW,TT75LED-NW,TT75RLED-NW,TT95LED-NW,TT95RLED-NW,T110LED-NW,
 T110LED-NW,SD45LED-NW,TT54LED-NW,TT54RLED-NW,TT80LED-NW,TT80RLED-NW,
 G40LED-NW,G45LED-NW,G45RLED-NW,G50LED-NW,G50RLED-NW,G80LED-NW,
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 G125RLED-NW,G125WXRLED-NWG150LED-NW,G150RLED-NW,G200LED-NW,
 G200RLED-NW,G250LED-NW,G250RLED-NW,G300LED-NW,G300RLED-NW,G350LED-NW,
 G350RLDE-NW,ST65LED-NW,ST145JPLED-NW,ST145JPRED-NW,NAJP110LED-NW,
 NAOJP110RLED-NW,T133LED-NW,T133RLED-NW,T125LED-NW,YP65LED-NW,



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YP85LED-NW,BYP115LED-NW,XX95LED-NW,XX95RLED-NW,XX114LED-NW,
XX114RLED-NW,XX125LED-NW,XX125RLED-NW,XX150LED-NW,XX150RLED-NW,
LCHL118LED-NW,LCHL118RLED-NW,SCHL150LED-NW,SCHL150RLED-NW,
SCHL100RLED-NW,WCHL125RLED-NW,BT95LED-NW,XBT95LED-NW,DBT120LED-NW,
XT120LED-NW,T200-5CTLED-NW,T200-5CTRLED-NW,T250-8CTRLED-NW,
WCMB150LED-NW,WCMB150RLED-NW,QCCWMB200RLED-NW,YZ200LED-NW,
YZ200RLED-NW,WCHBT88RLED-NW,BCHBT120RLED-NW,LCGL160RLED-NW,
SCGL160RLED-NW,XLJ45RLD-NW,SJQP120RLED-NW,WJQP120RLED-NW,
SJJP125RLED-NW,WJJP125RLED-NW,DLJ80RLDE-NW,PDMG200RLED-NW,
PDMG250RLED-NW,YDMG200RLED-NW,YDMG250RLED-NW,BD95LED-NW,BD150LED-NW,
DL85LED-NW,DL100LED-NW,DL125LED-NW,YK120LED-NW,YL120RLED-NW,GD95LDE-NW
GD125LED-NW,GD150LED-NW,WJX95LED-NW,WJX125LED-NW,WJX145LED-NW,
LJ45RLED-NW,YJ215RLED-NW,ZQ95LED-NW,ZQ150LED-NW,XMY51LED-NW,
FD200RLED-NW,FD250RLDE-NW,XHL135RLED-NW,DHL135RLED-NW,YS120RLDE-NW,
YS160RLDE-NW,LJT125LED-NW,YJP LED-NW,SFP-RLED-NW,BFP-RLED-NW,
XHLSP70-RLED-NW,DHLSP95-RLED-NW,WSG120-RLED-NW,WSG160-RLDE-NW,
MG120LED-NW,MG120RLED-NW,SG120-LED-NW,SG120RLED-NW,S35LED-NW,



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CG95LED-NW,CG95RLED-NW,CG150LED-NW,CG150RLED-NW,S14D500RLED-NW,
 S14D300RLED-NW,S14S500RLED-NW,S14S300RLED-NW.A45-NGW-LED-NW,
 D45-ZS-LED-NW,G95-TXD-LED-NW,PC/G45-LED-NW,A60NZ-RLED-YH-NW,
 A60NZ-RLED-PJ-NW,BD120-ZS-LED-NW,G125-BL-LED-YH-NW,G155-LED-WB-NW,
 G125-SJZ-LED-NW, G125-BL-LED-PJ-NW,G125-BL-LED-XX-NW,A60-LED-WB-NW,
 ST64-LED-WB-NW,G95-LED-WB-NW,G125-LED-WB-NW,ST48-NZ-LED-NW,R160-LED-NW,
 WJX118-LED-NW,AX114-LED-NW,A48NZ-RLED-NW,WJX140-LED-NW,T30*200-RLED-NW,
 T30*300-LED-NW,G150-LXZ-LED-NW,C35-LW-RLED-NW,A120*280-NTWSG-LED-NW,
 A125*270-NTWWSG-RLED-NW,A160*300-WSG-RLED-NW,G125*183-JDNGZ-LED-NW,
 FD200*164-TWMG-RLED-NW,PD200*145-TWMG-RLED-NW,YZ200*408-TW-LED-NW,
 G180-WXR-RLED-NW,HP160-RLED-NW,HP215-RLED-NW,HP145-SJPD-WB-LED-NW,
 T120-WB-LED-NW,T118-WB-NW,T64-WB-LED-NW.R180-WB-LED-NW,R200-WB-LED-NW,
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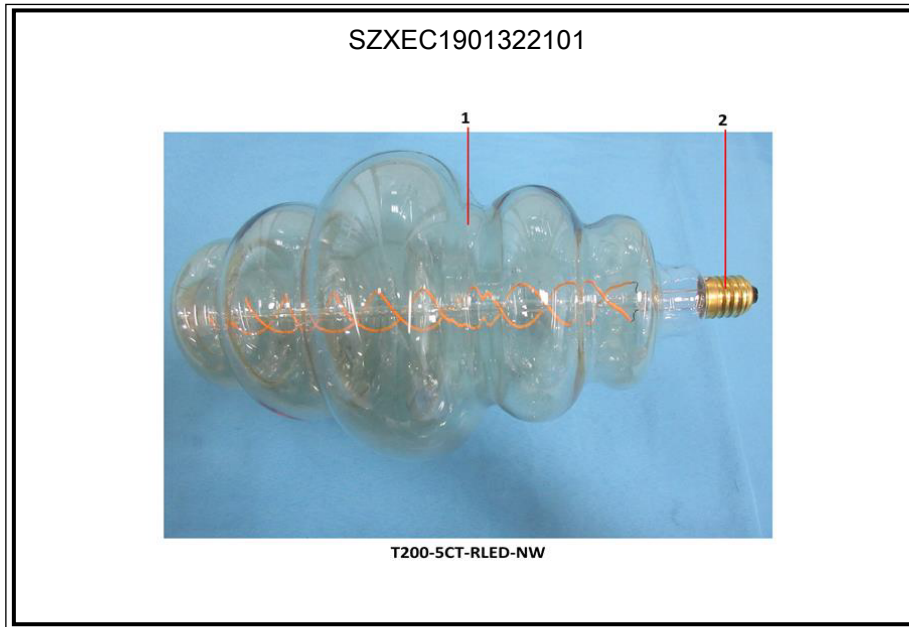


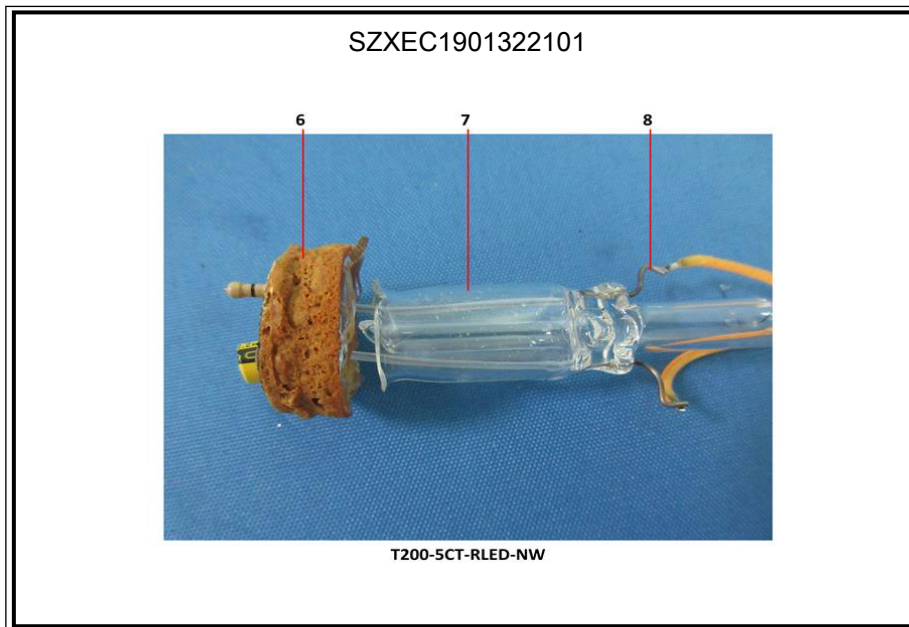
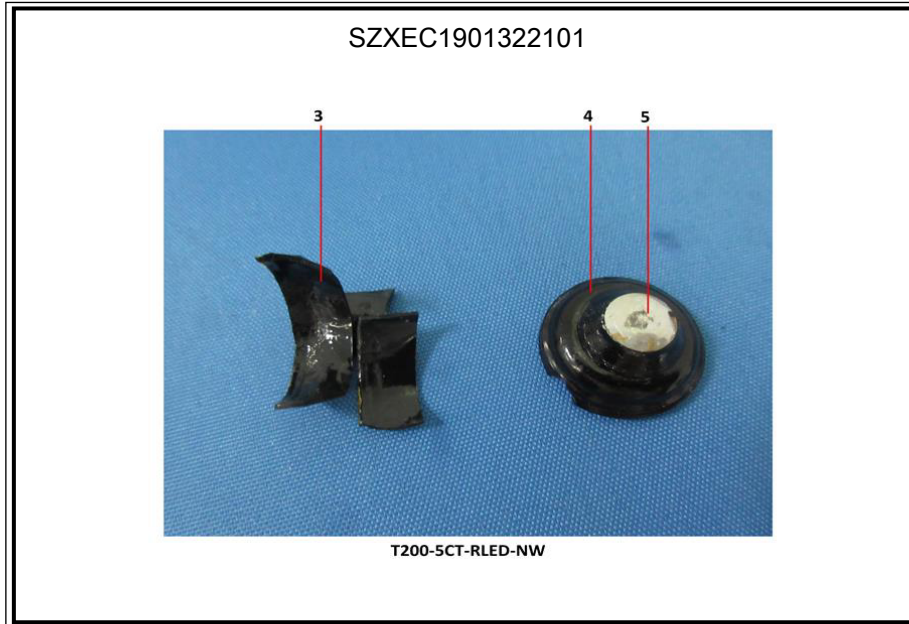
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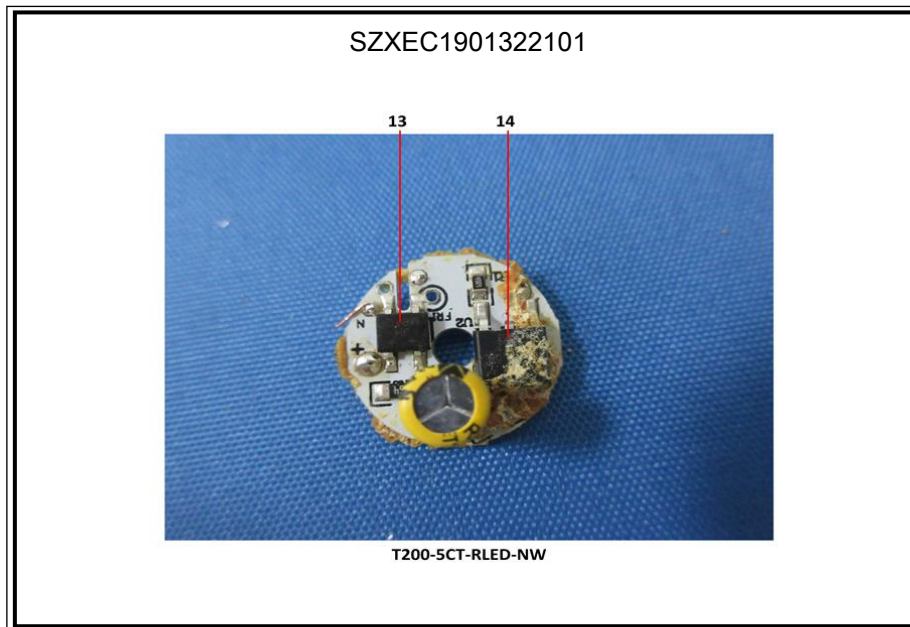
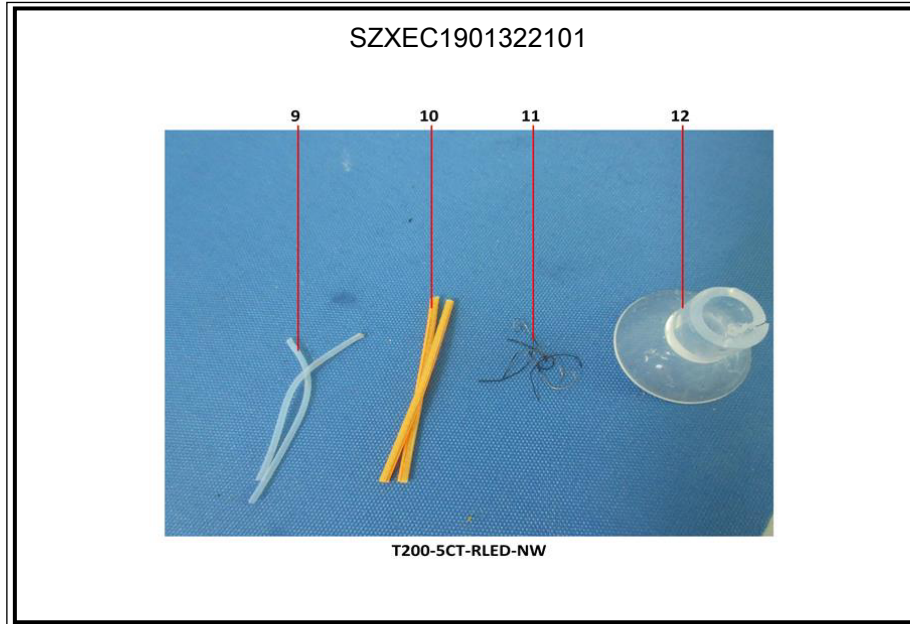
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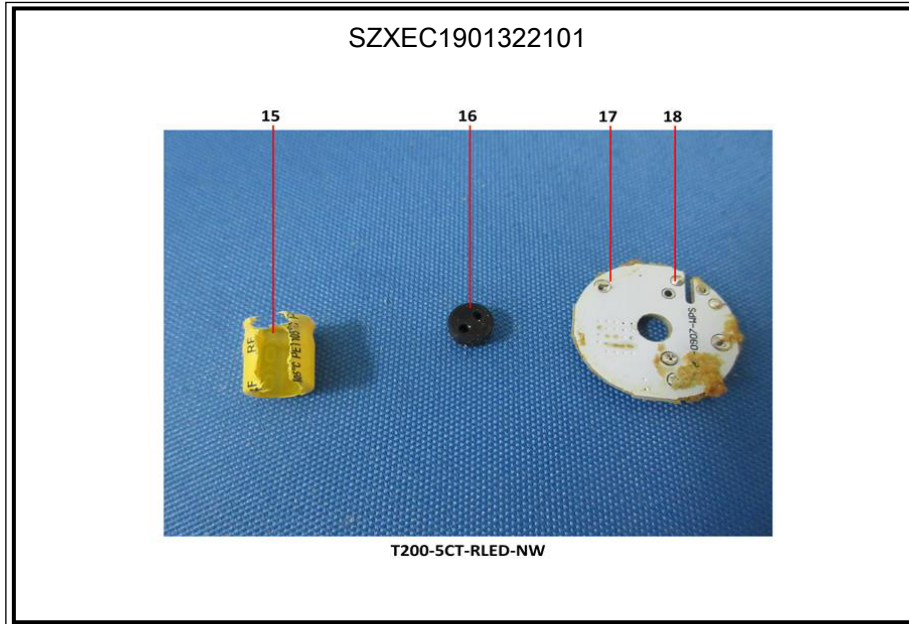
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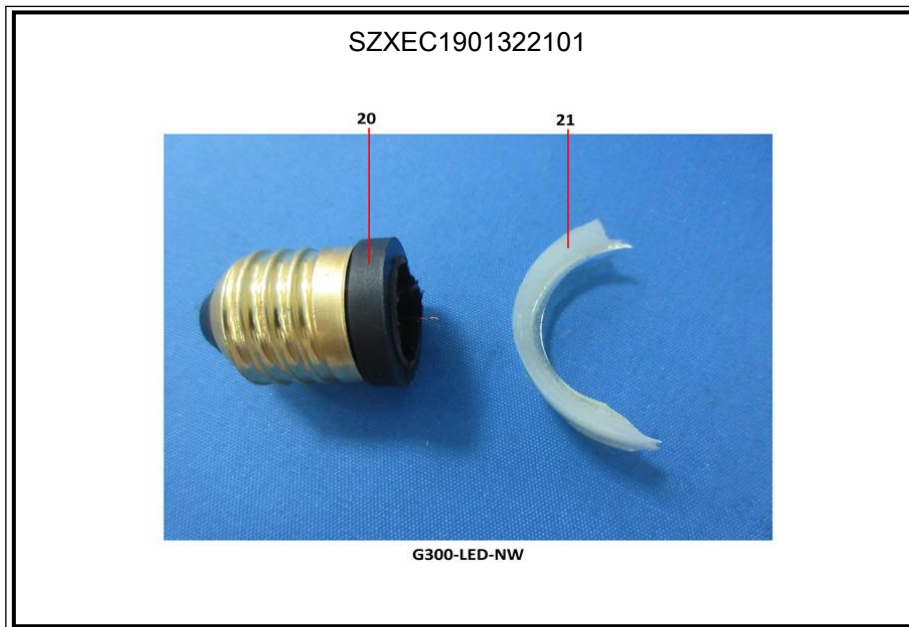
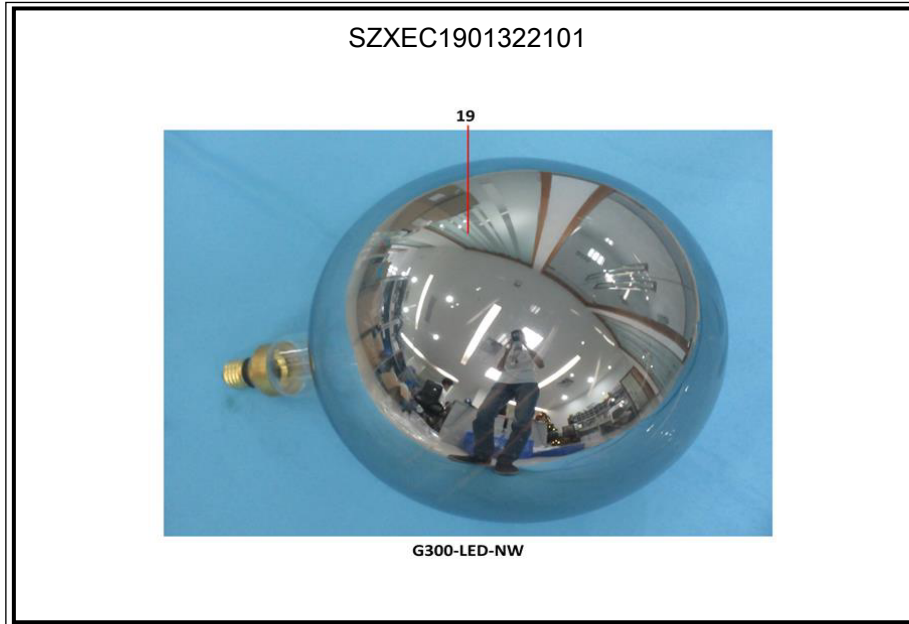
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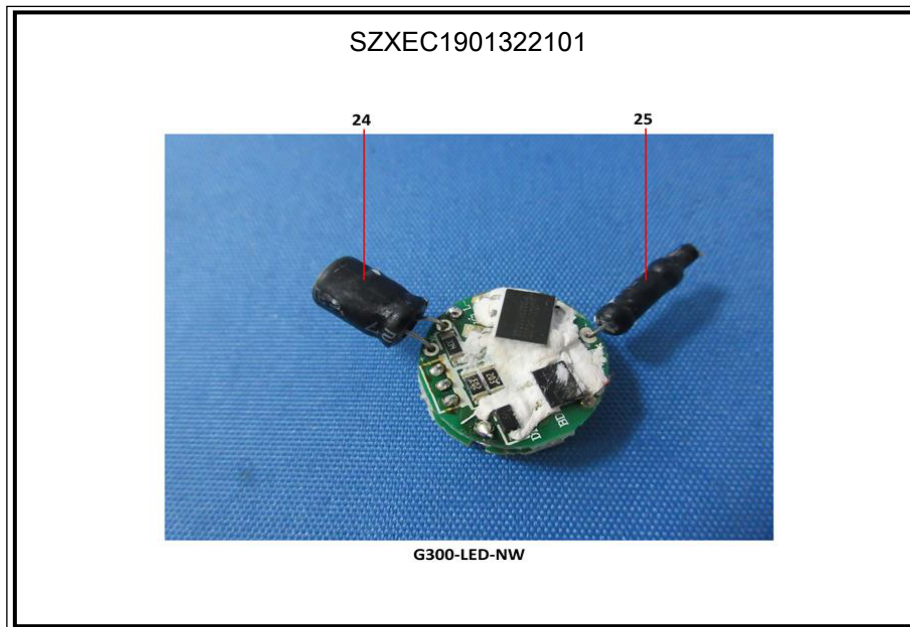
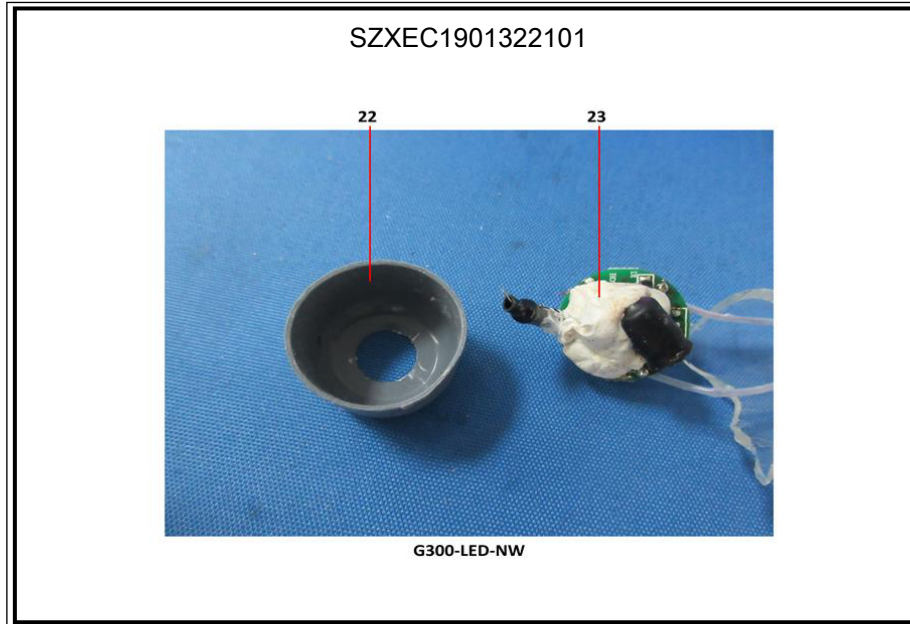


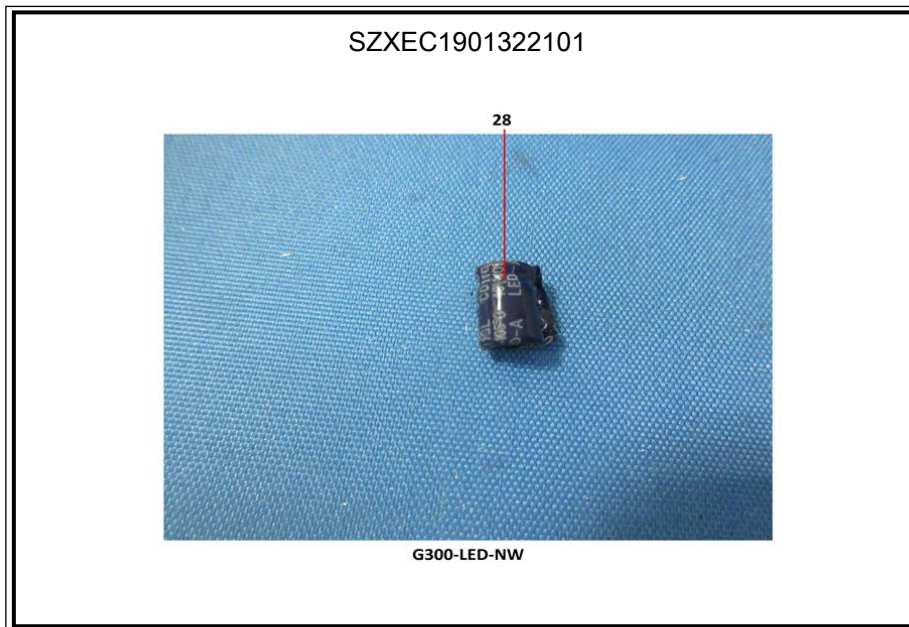
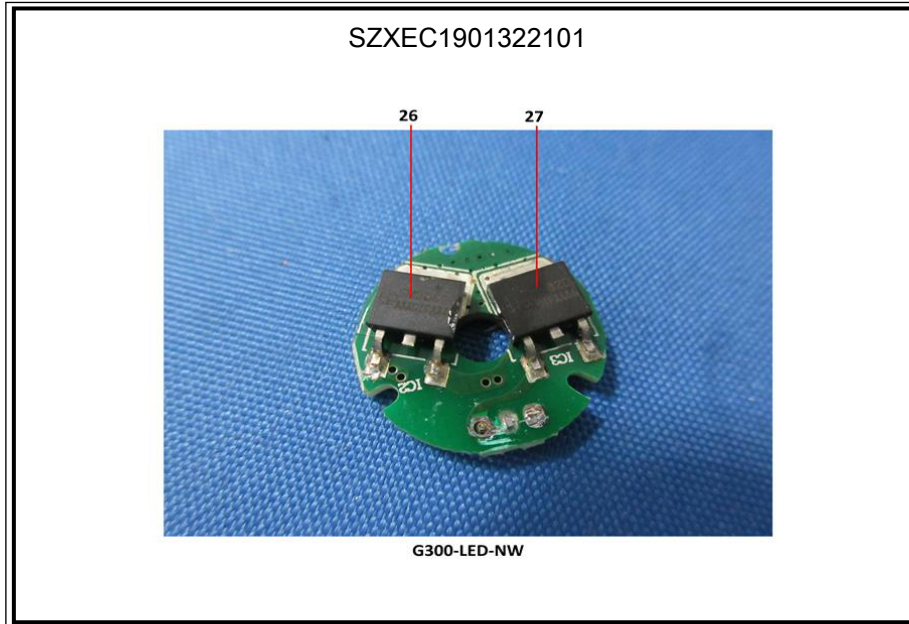


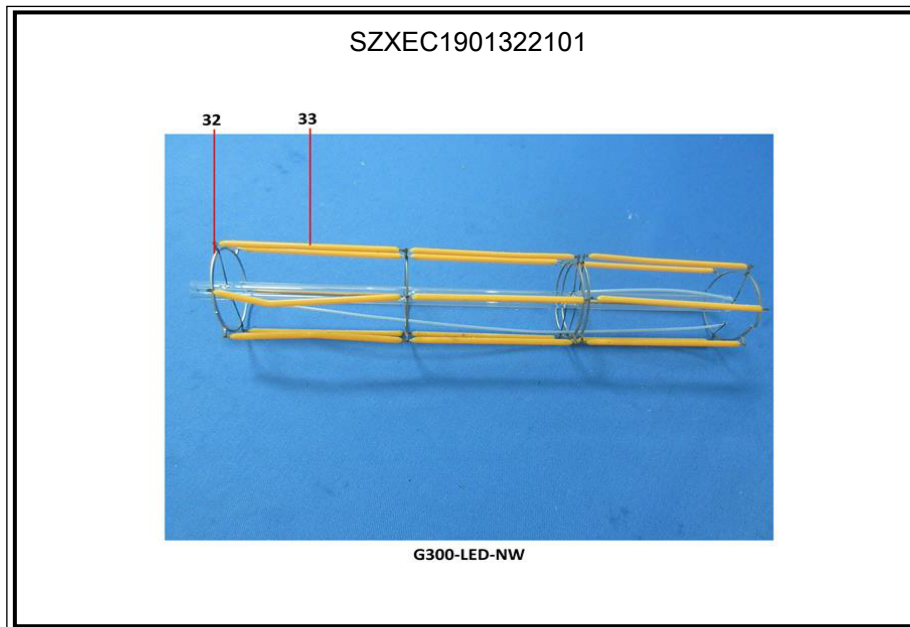
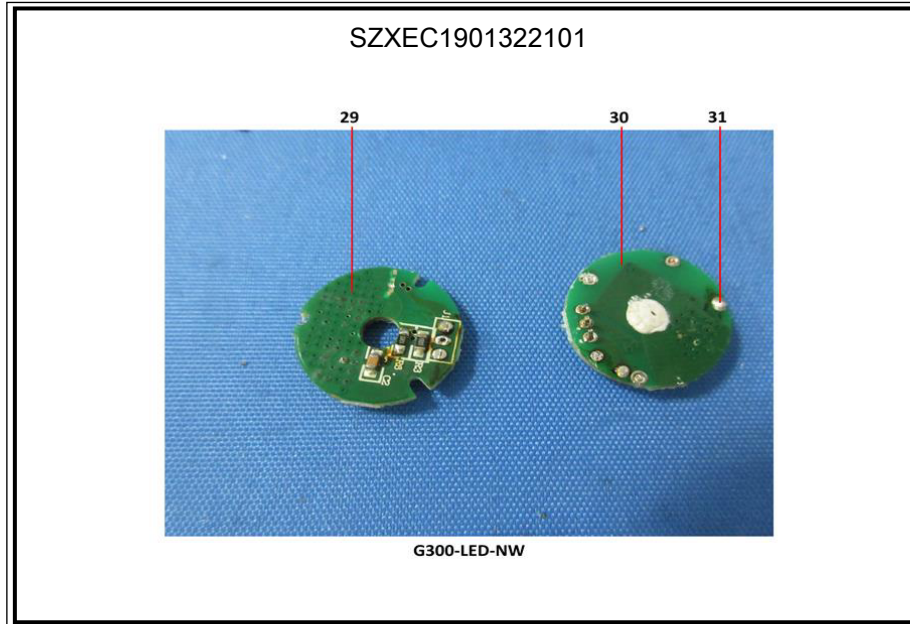


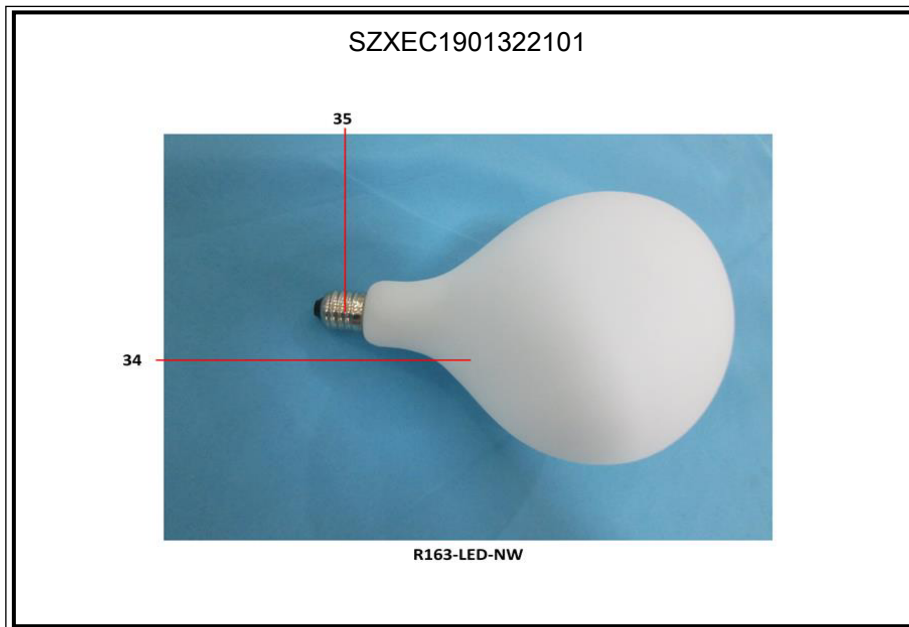


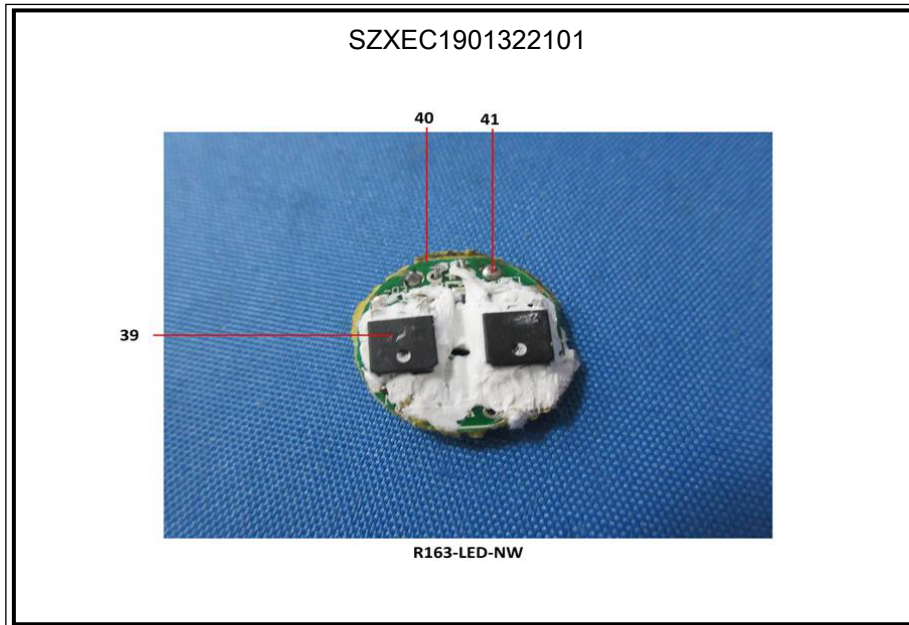
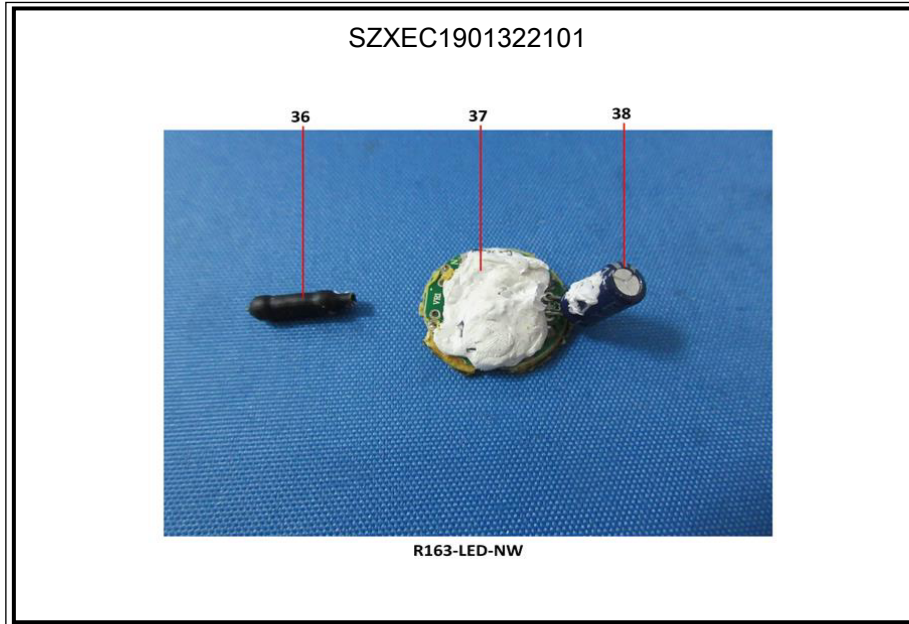


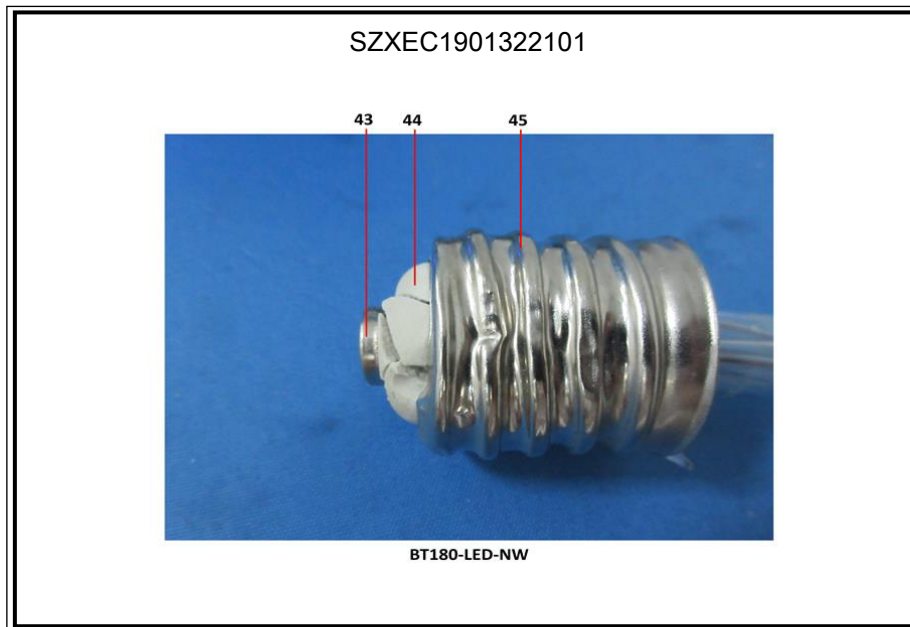
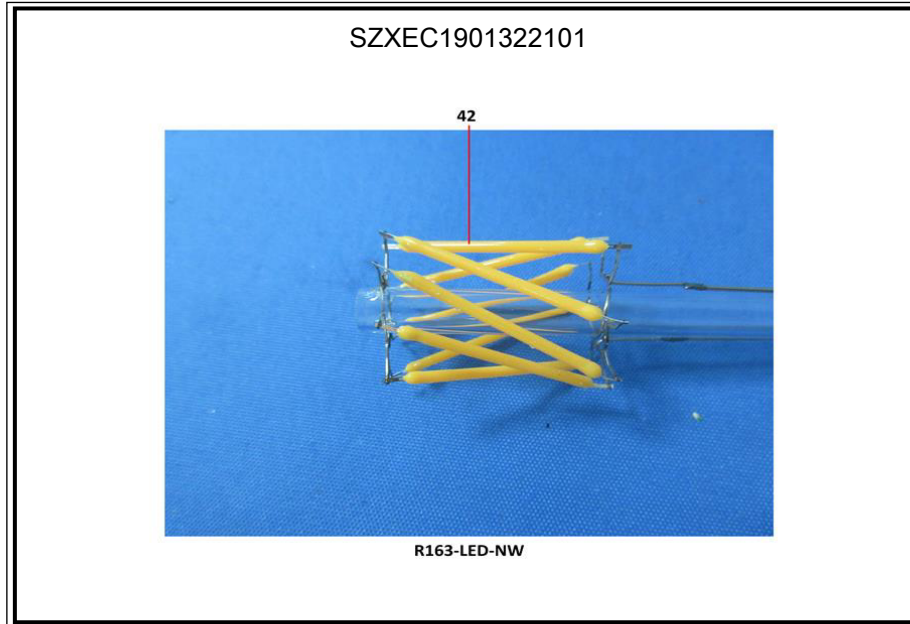


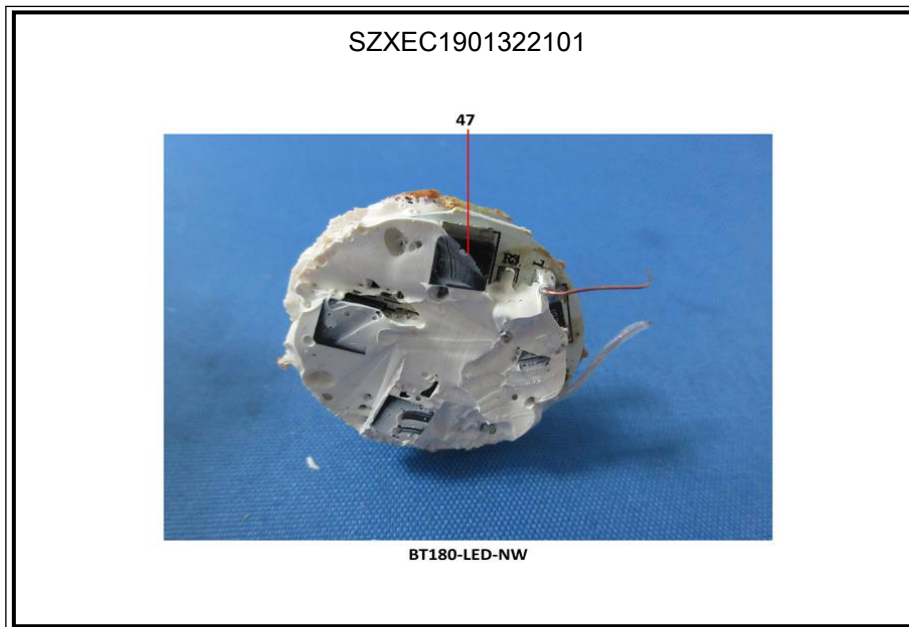


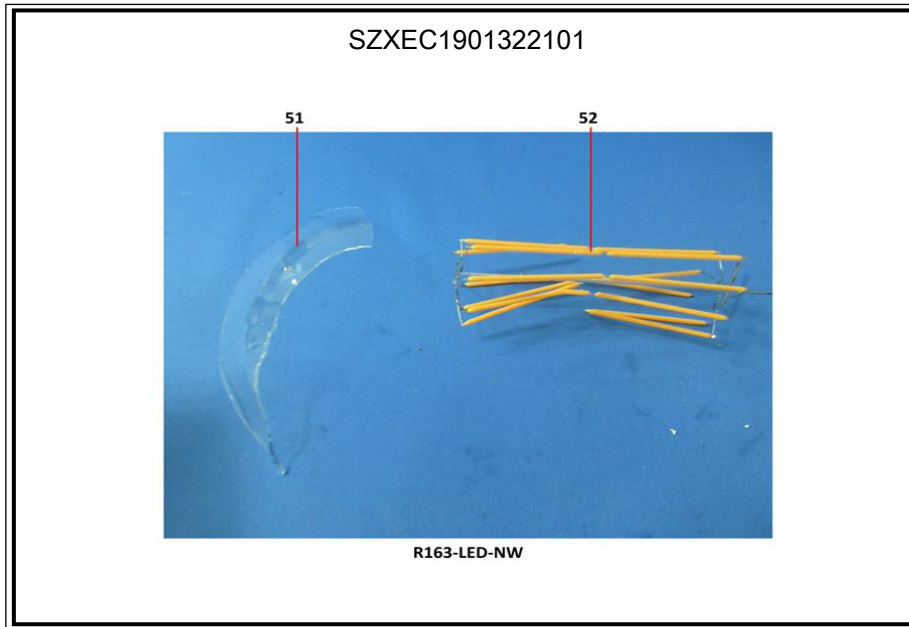
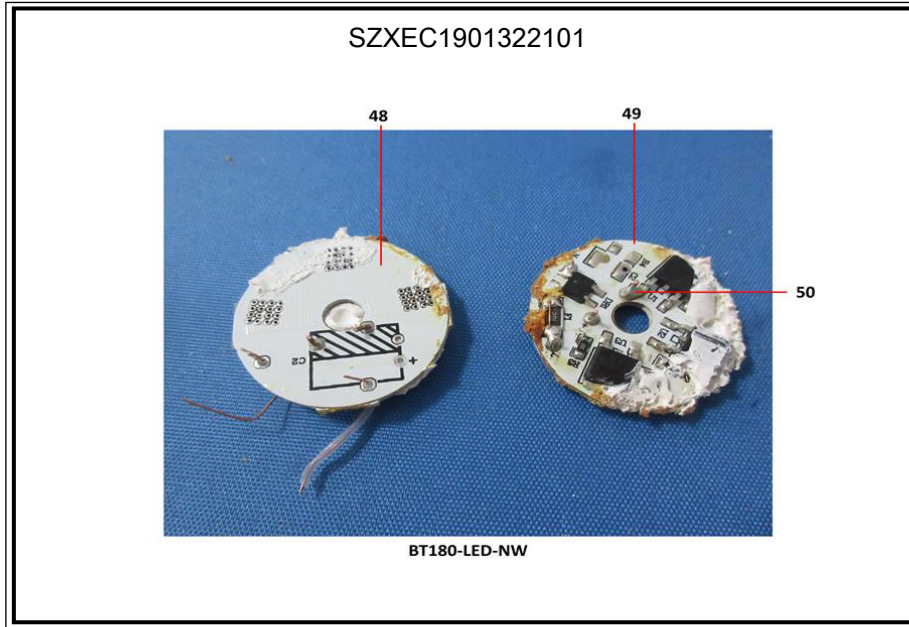












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