CE RoHS
TEST REPORT

For

LED Bulb

Model No.:	**VT-1880, VT-1886, VT-1896, VT-1855TP, VT-1855, VT-2029, VT-2033, VT-2043, VT-2032, VT-2076, VT-2106, VT-2097, VT-2098, VT-2146, VT-2156, VT-255, VT-225, VT-202, VT-248, VT-236, VT-226, VT-239, VT-250, VT-268, VT-269, VT-258, VT-282, VT-294D, VT-270, VT-2266, VT-2246, VT-2236, VT-2226, VT-2234, VT-2214, VT-293D, VT-4216, VT-42501, VT-4123, VT-112, VT-4174**
Applicant :	**V-TAC EXPORTS LIMITED** **ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG**
Manufacturer :	**V-TAC EXPORTS LIMITED** **ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG**
Issued By :	**Global-Standard Testing Service Co., Ltd.** **Room 1505, Building B, Chuangxin Plaza, Pingshan Avenue, Pingshan District, Shenzhen, China**
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Report Number :	**J02.06.0181R-R5**
Issued Date :	**December 26, 2019**
Date of Report :	**December 26, 2019**

Note:

1 The test data and result is based on the tested sample only.

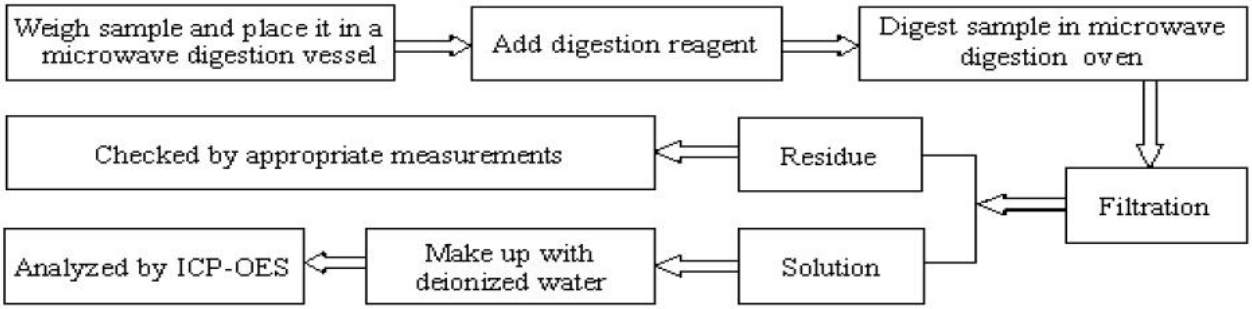
2 Please verify information in the report on GST web: www.gstslab.com through report number.

3

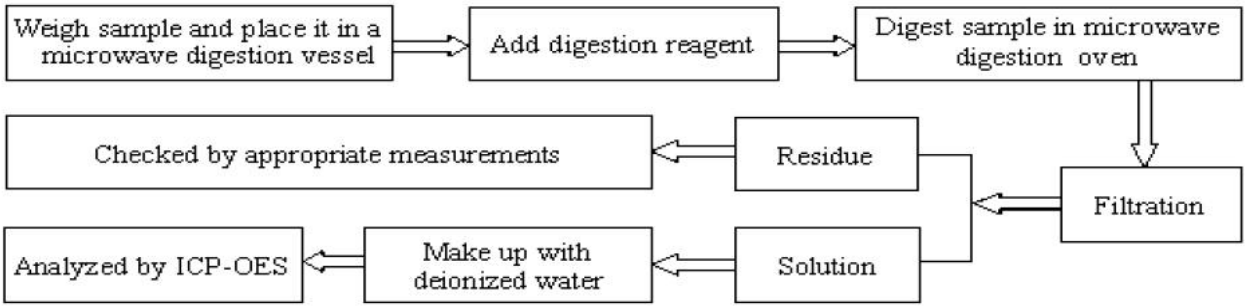
4 This report is based on report J02.06.0181R-R4 which issued on April 19, 2019.

Test process

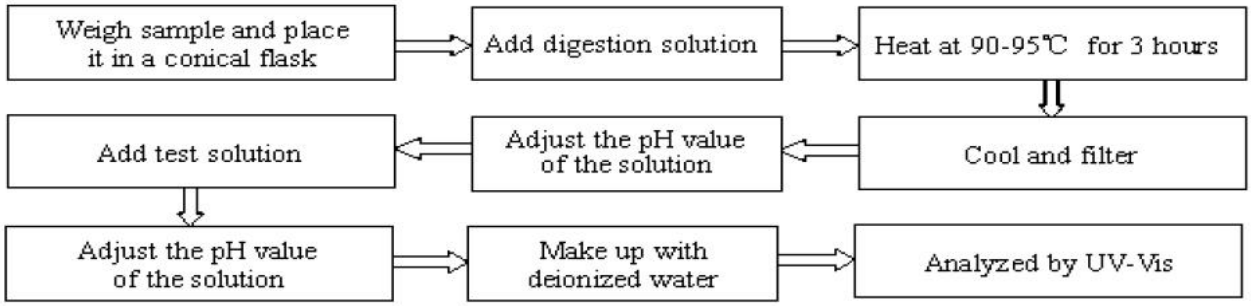
1. Lead(Pb), Cadmium(Cd)



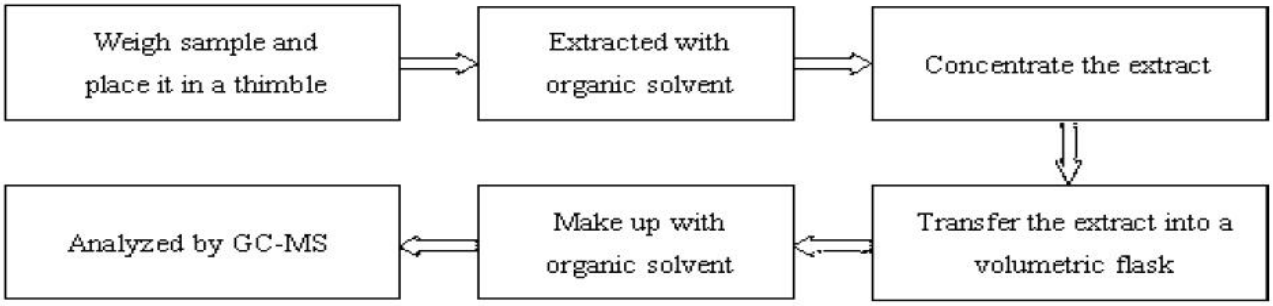
2. Mercury(Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs) , HBCDD, DBP, DEHP, BBP



Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg	PBBs & PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	2

Result	:	**Pass**
Conclusion	:	An independent evaluation on the above-mentioned product(s) has been conducted pursuant to 2011/65/EU and (EN)2015/863 of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and concluded that the equipment under evaluation met the legislative requirements of this directive.

Reviewed by

Global-Standard Testing Service Co., Ltd. APPROVED

Nico Xie
Manager
December 26, 2019

Test Data Summary：

SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
1	E14 Lamp cap	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
2	LED lampshade	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
3	Ceram enclosure	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
4	Lamp base	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
5	Internal wire	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
6	Aluminium base	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
7	Glue	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
8	Rectifier	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
9	E-Capacitor	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
10	SMD rectifier	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
11	Diode	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
12	LED body	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
13	Soldering tin	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
14	SMD IC	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
15	SMD Diode	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
16	Plastic Enclosure	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
17	Electromagnetic Wire	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
18	Fuse	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
19	Varistor	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
20	Insulation Tape	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
21	Metal Part	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
22	Heat sink	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
23	Screw	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
24	Bobbin	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
25	Core	Cd	P	N.D.	＜100	P
		Cr	P	N.D.	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	/	＜1000	P
		PBDEs	D	/	＜1000	P
		HBCDD	D	/	＜1000	P
		DEHP	D	/	＜1000	P
		DBP	D	/	＜1000	P
		BBP	D	/	＜1000	P
26	Varnish	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
27	Tube Teflon	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P
28	Transistor	Cd	P	N.D.	＜100	P
		Cr	P	/	＜1000	P
		Hg	P	N.D.	＜1000	P
		Pb	P	N.D.	＜1000	P
		PBBs	D	N.D.	＜1000	P
		PBDEs	D	N.D.	＜1000	P
		HBCDD	D	N.D.	＜1000	P
		DEHP	D	N.D.	＜1000	P
		DBP	D	N.D.	＜1000	P
		BBP	D	N.D.	＜1000	P

Note:
(1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) N.A. = Not Analyzed
(4) Negative = the concentration of Hexavalent Chromium extracted from 50cm^2 sample is less than the detection limit.

Appendix 1

Photo Documentation

Photo 1 View: [√] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [ ] Internal	

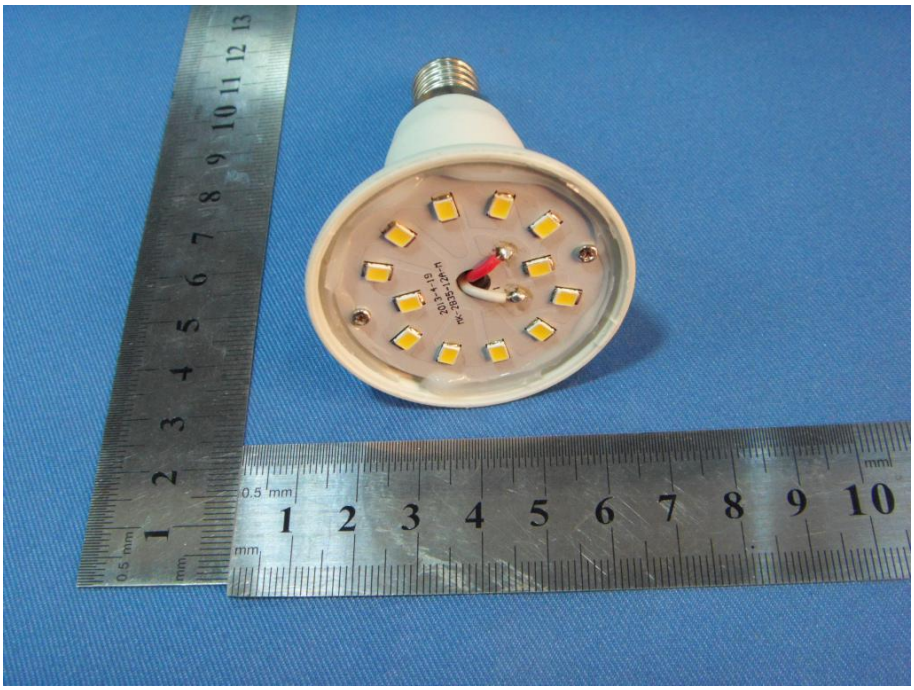
Photo 2 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [√] Internal	

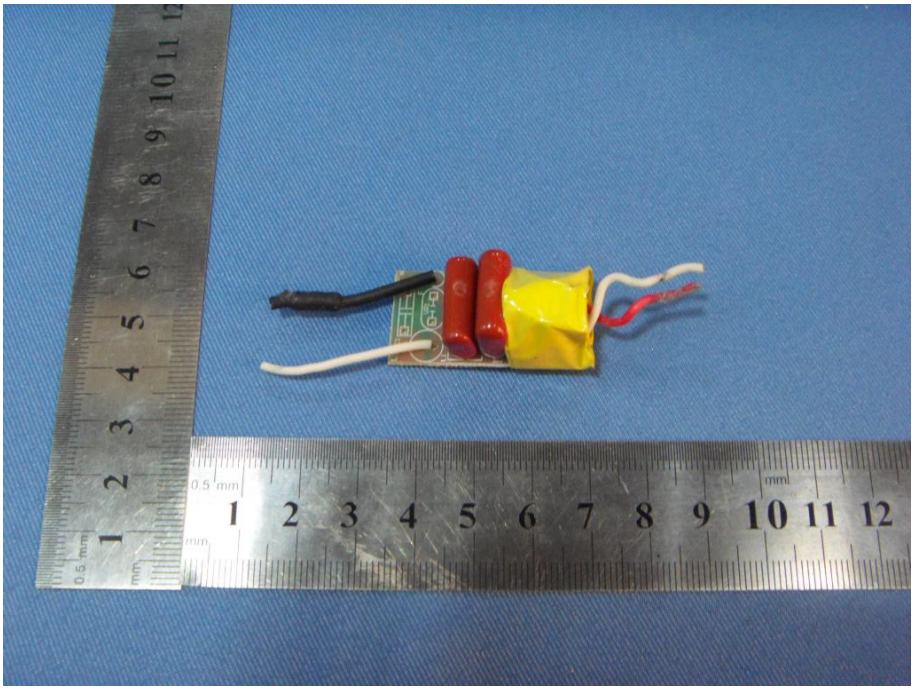
Photo 3 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [ ] LED [√] PCB	

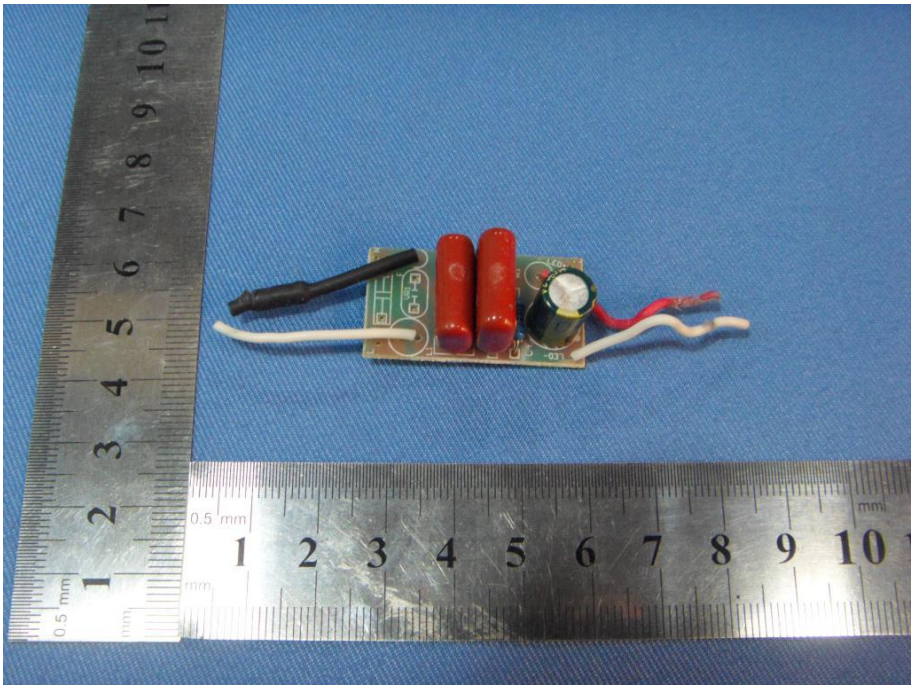
Photo 4 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [ ] LED [√] PCB	

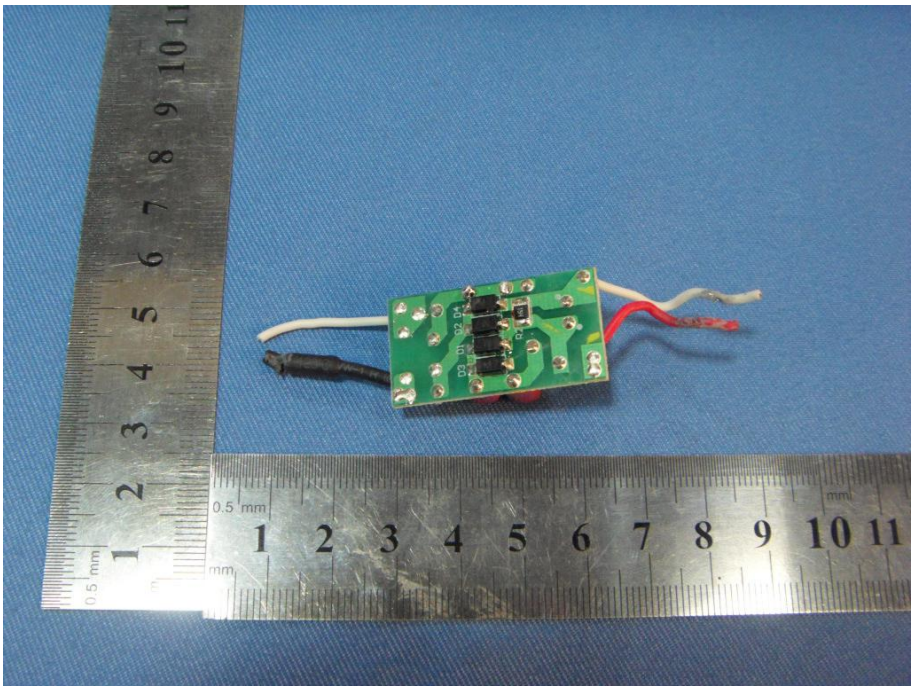
Photo 5 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [ ] LED [√] PCB	

Photo 6 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [√] Internal	

END.