

TEST REPORT

Applicant Name & Address : Seasonal Visions International Ltd
Unit C,12/F,Phase 1,Kaiser Estate,Nos.37-43 ManYue Street,Hung
Hom,Kowloon
Manufacturing Site : SHENZHEN QIAOHUA INDUSTRIES LIMITED
301, No.1 Building, Qiaohua Industrial Zone, LuoTian Forestry
Center,SongGang Town, Bao An, ShenZhen, China.

Sample Description

Product : Strobe Light
Model No. : QS-003
Electrical Rating : 120V~60Hz Max.5W 47mA
FCC ID : ZOPSTLAC

Date Received : 08 August 2014
Date Test Conducted : 09 August 2014-02 September 2014

Test standards : FCC Part 18: 2011

Test Result : Pass


Conclusion : The submitted samples complied with the above rules/standards.

Remark : None.


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Prepared and Checked By:

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Engineer
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 **Signature**

Helen Ma
Sr. Project Engineer
Intertek Guangzhou
03 September 2014 **Date**

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TEST RESULTS SUMMARY

Classification of EUT: Consumer RF lighting:

| Test Item | Standard | Result |
|---------------------------|--------------------------|---------------|
| Conducted Emission | FCC Part 18: 2011 | Pass |
| Radiated Emission | FCC Part 18: 2011 | Pass |

Remark: 1. The symbol “N/A” in above table means Not Applicable.

2. When determining the test results, measurement uncertainty of tests has been considered.

2

Test Results Conclusion
(with Justification)

RE: EMC Testing Pursuant to FCC Part 18 Performed On the Strobe Light, Models: QS-003.

We tested the Strobe Light, Model: QS-003, to determine if it was in compliance with the relevant FCC rules as marked on the Test Results Summary. We found that the unit met the requirement of FCC Part 18 when tested as received. The worst case's test data was presented in this test report.

Conclusion:

The sample as received complied with the FCC Part 18 requirement.

The production units are required to conform to the initial sample as received when the units are placed on the market.

3

LABORATORY MEASUREMENTS

Configuration Information

| | |
|------------------------------------|---|
| Equipment Under Test (EUT): | Strobe Light |
| Model: | QS-003 |
| Serial No. | Not Labeled |
| Support Equipment: | N/A |
| Rated Voltage: | 120V/60Hz |
| Condition of Environment: | Temperature : 22~28°C Relative Humidity: 35~60% Atmosphere Pressure 86~106kPa |

Notes:

1. The EMI measurements had been made in the operating mode producing the largest emission in the frequency band being investigated consistent with normal applications.
An attempt had been made to maximize the emission by varying the configuration of the EUT.

2. Test Sites:

All of the tests are performed at:
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City,
GETDD Guangzhou, China 510663.

This test facility and site measurement data have been fully placed on file with the FCC, test firm registration number is 549654.

4 TEST RESULTS

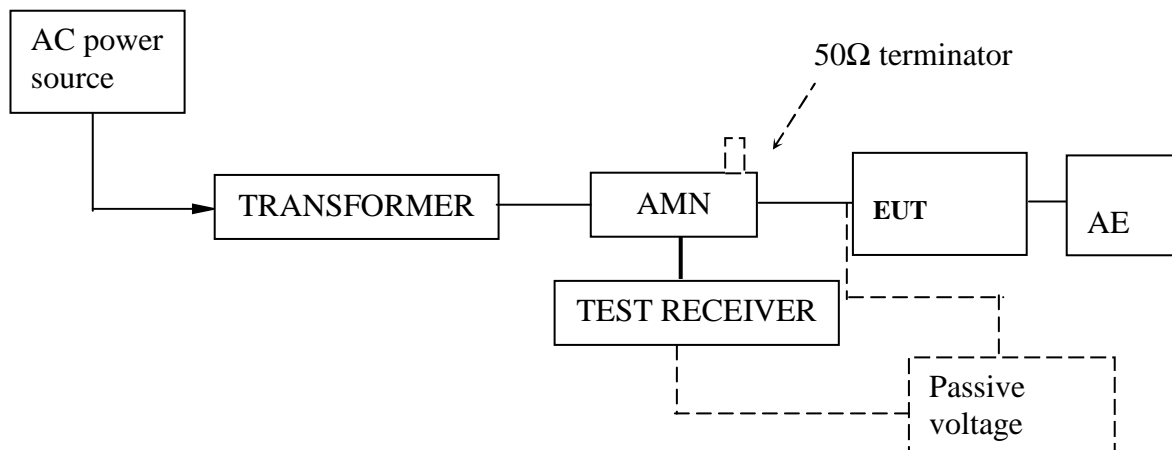
4.1 Conducted Emission Test

Test Result: Pass

4.1.1 Used Test Equipment

| Equipment No. | Equipment | Model | Manufacturer |
|---------------|-----------------|----------|--------------|
| EM004-04 | EMC shield Room | 8m×3m×3m | Zhongyu |
| EM080-05 | EMI receiver | ESCI | R&S |
| EM006-05 | LISN | ENV216 | R&S |

4.1.2 Block Diagram of Test Setup



4.1.3 Test Setup and Procedure

Test was performed according to FCC OST/ MP-5:1986. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane(Ground Reference Plane).And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 450 kHz to 30MHz was checked.

4.1.4 Test Data

At main terminal: Pass

Tested Wire: Live

Operation Mode: Lighting on

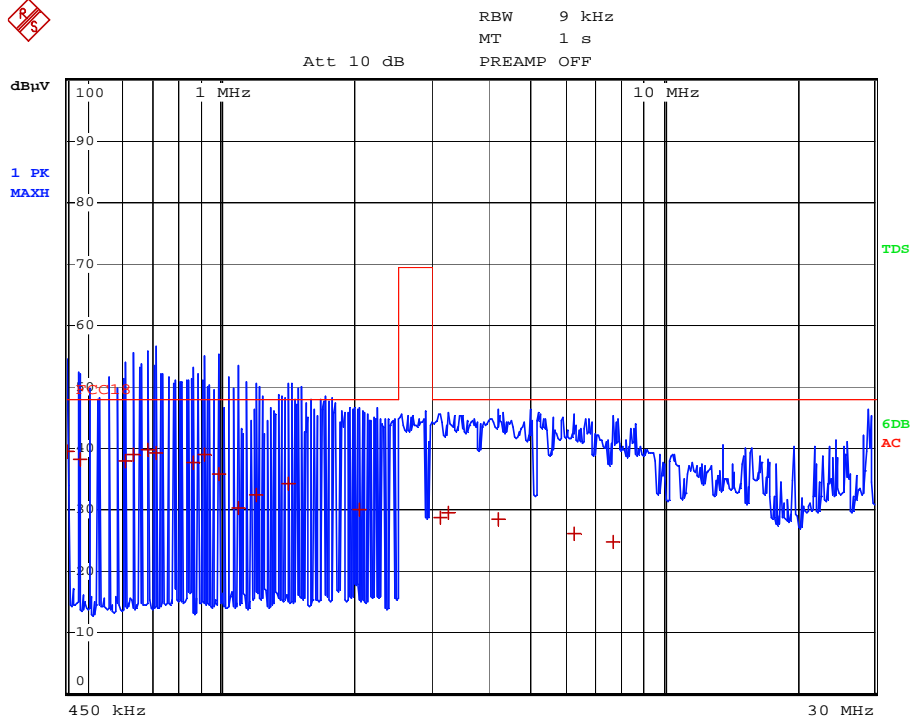
| EDIT PEAK LIST (Final Measurement Results) | | | | |
|--|-----------|------------|----------------|--|
| Trace1: | FCC18 | | | |
| Trace2: | --- | | | |
| Trace3: | --- | | | |
| TRACE | FREQUENCY | LEVEL dBμV | DELTA LIMIT dB | |
| 1 Quasi Peak | 682 kHz | 39.84 L1 | -8.10 | |
| 1 Quasi Peak | 450 kHz | 39.44 L1 | -8.50 | |
| 1 Quasi Peak | 710 kHz | 39.36 L1 | -8.58 | |
| 1 Quasi Peak | 914 kHz | 38.91 L1 | -9.03 | |
| 1 Quasi Peak | 630 kHz | 38.91 L1 | -9.03 | |
| 1 Quasi Peak | 478 kHz | 38.06 L1 | -9.88 | |
| 1 Quasi Peak | 606 kHz | 37.80 L1 | -10.14 | |
| 1 Quasi Peak | 862 kHz | 37.54 L1 | -10.40 | |
| 1 Quasi Peak | 990 kHz | 35.86 L1 | -12.08 | |
| 1 Quasi Peak | 1.418 MHz | 34.35 L1 | -13.59 | |
| 1 Quasi Peak | 1.194 MHz | 32.30 L1 | -15.64 | |
| 1 Quasi Peak | 1.09 MHz | 30.18 L1 | -17.76 | |
| 1 Quasi Peak | 2.062 MHz | 30.13 L1 | -17.82 | |
| 1 Quasi Peak | 3.25 MHz | 29.48 L1 | -18.46 | |
| 1 Quasi Peak | 3.126 MHz | 28.68 L1 | -19.26 | |
| 1 Quasi Peak | 4.234 MHz | 28.37 L1 | -19.57 | |
| 1 Quasi Peak | 6.286 MHz | 25.99 L1 | -21.95 | |
| 1 Quasi Peak | 7.694 MHz | 24.75 L1 | -23.19 | |

Tested Wire: Neutral

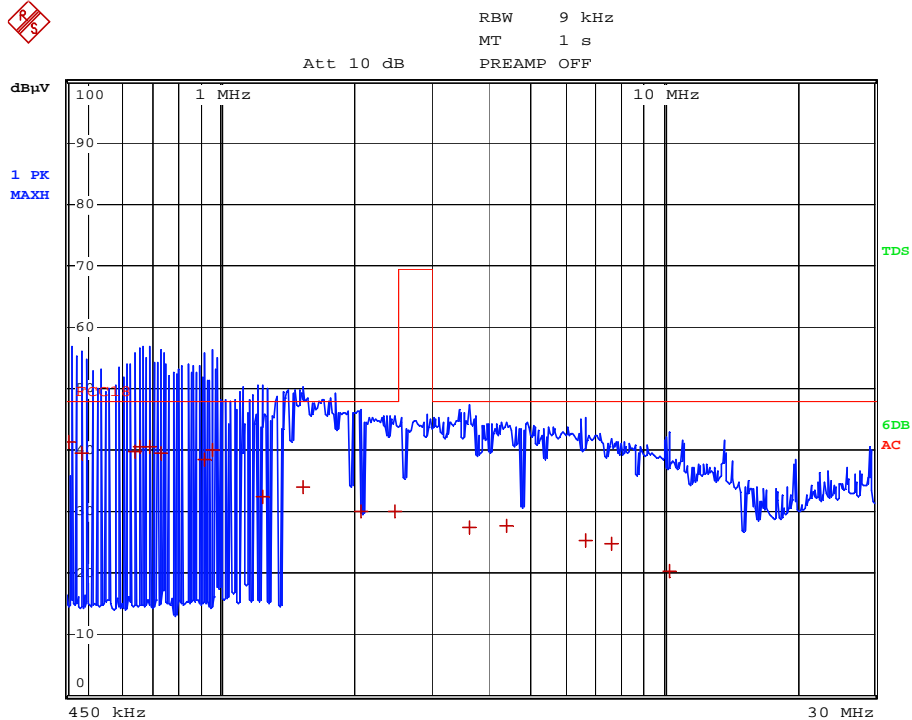
Operation Mode: Lighting on

| EDIT PEAK LIST (Final Measurement Results) | | | | |
|--|------------|------------|----------------|--|
| Trace1: | FCC18 | | | |
| Trace2: | --- | | | |
| Trace3: | --- | | | |
| TRACE | FREQUENCY | LEVEL dBμV | DELTA LIMIT dB | |
| 1 Quasi Peak | 458 kHz | 41.46 L1 | -6.48 | |
| 1 Quasi Peak | 686 kHz | 40.65 L1 | -7.29 | |
| 1 Quasi Peak | 650 kHz | 40.57 L1 | -7.37 | |
| 1 Quasi Peak | 954 kHz | 39.99 L1 | -7.95 | |
| 1 Quasi Peak | 638 kHz | 39.65 L1 | -8.29 | |
| 1 Quasi Peak | 482 kHz | 39.56 L1 | -8.38 | |
| 1 Quasi Peak | 726 kHz | 39.52 L1 | -8.42 | |
| 1 Quasi Peak | 918 kHz | 38.57 L1 | -9.37 | |
| 1 Quasi Peak | 1.53 MHz | 34.02 L1 | -13.92 | |
| 1 Quasi Peak | 1.238 MHz | 32.33 L1 | -15.61 | |
| 1 Quasi Peak | 2.47 MHz | 29.96 L1 | -17.98 | |
| 1 Quasi Peak | 2.066 MHz | 29.94 L1 | -18.00 | |
| 1 Quasi Peak | 4.41 MHz | 27.70 L1 | -20.24 | |
| 1 Quasi Peak | 3.65 MHz | 27.50 L1 | -20.44 | |
| 1 Quasi Peak | 6.658 MHz | 25.36 L1 | -22.58 | |
| 1 Quasi Peak | 7.638 MHz | 24.83 L1 | -23.11 | |
| 1 Quasi Peak | 10.278 MHz | 20.29 L1 | -27.65 | |

4.1.5 Emission Curve Tested Wire: Live



Tested Wire: Neutral



4.1.6 Measurement Uncertainty

Uncertainty: 2.70 dB at a level of confidence of 95%

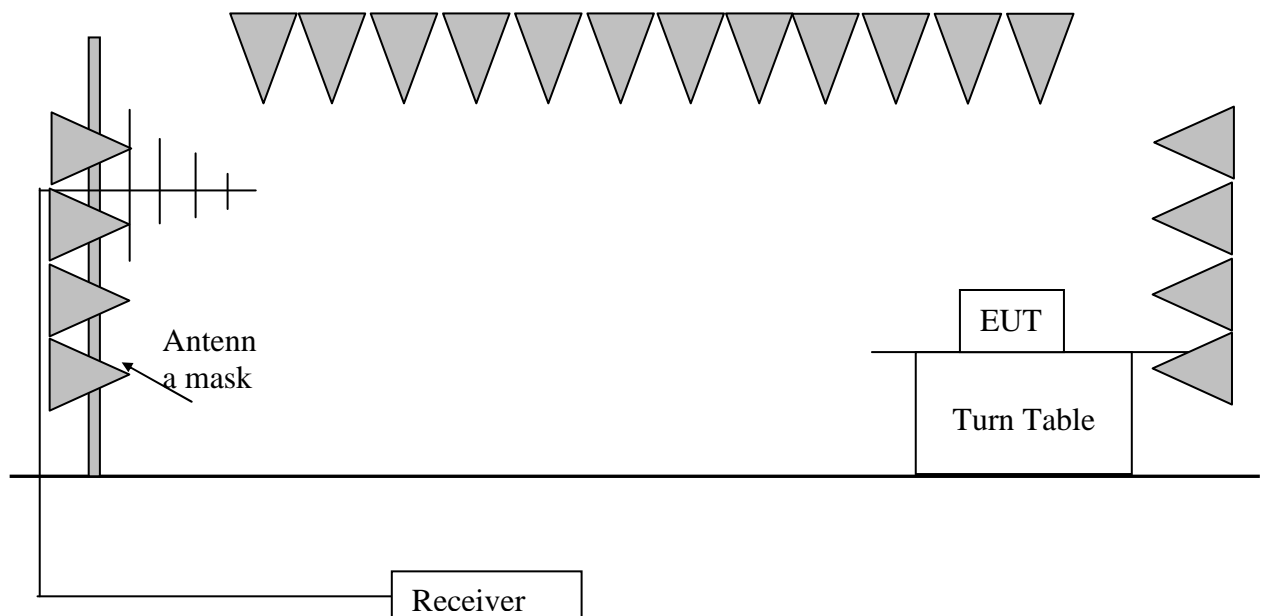
4.2 Radiated Emission

Test Result: Pass

4.2.1 Used Test Equipment

| Equip. No. | Equipment | Model | Manufacturer |
|-------------|--|-----------|--------------|
| EM030-01 | 3m Semi-Anechoic Chamber | 9×6×6 m3 | ETS•LINDGREN |
| EM030-02 | Control room for 3m Semi-Anechoic Chamber | 4×4×3 m3 | ETS•LINDGREN |
| EM031-02 | EMI Test Receiver (9 kHz~7 GHz) | R&S ESR7 | R&S |
| EM033-01 | TRILOG Super Broadband test Antenna (30 MHz-3 GHz) | VULB 9163 | SCHWARZBECK |
| EM031-02-01 | Coaxial cable | / | R&S |

4.2.2 Block Diagram of Test Setup



4.2.3 Test Setup and Procedure

The measurement was applied in a 3 m semi-anechoic chamber. The EUT and simulators were placed on a 0.8 m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The

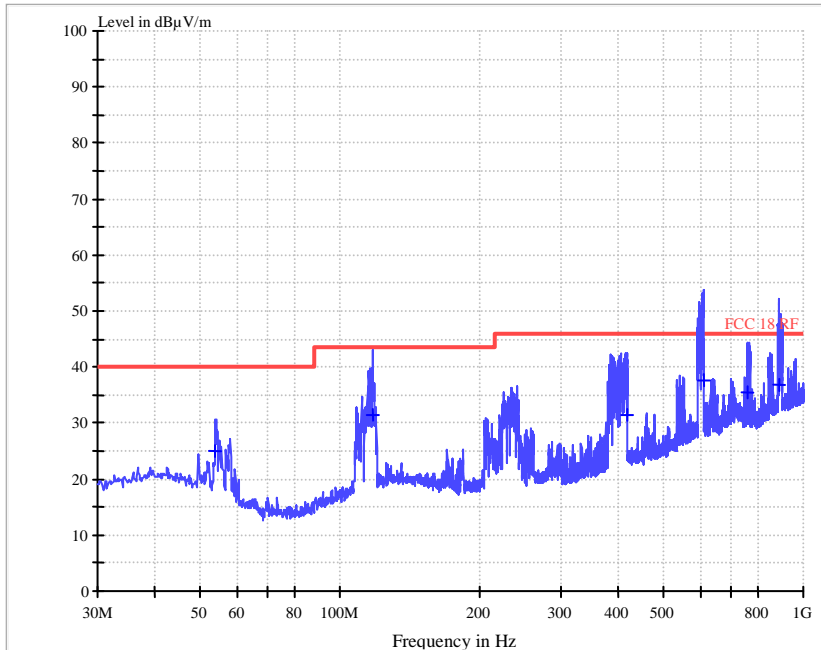
EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mask. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

Broadband antenna was used as receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC OST/ MP-5:1986 requirement during radiated test. The bandwidth setting on R&S Test Receiver was 100 kHz. The frequency range from 30 MHz to 1000 MHz was checked

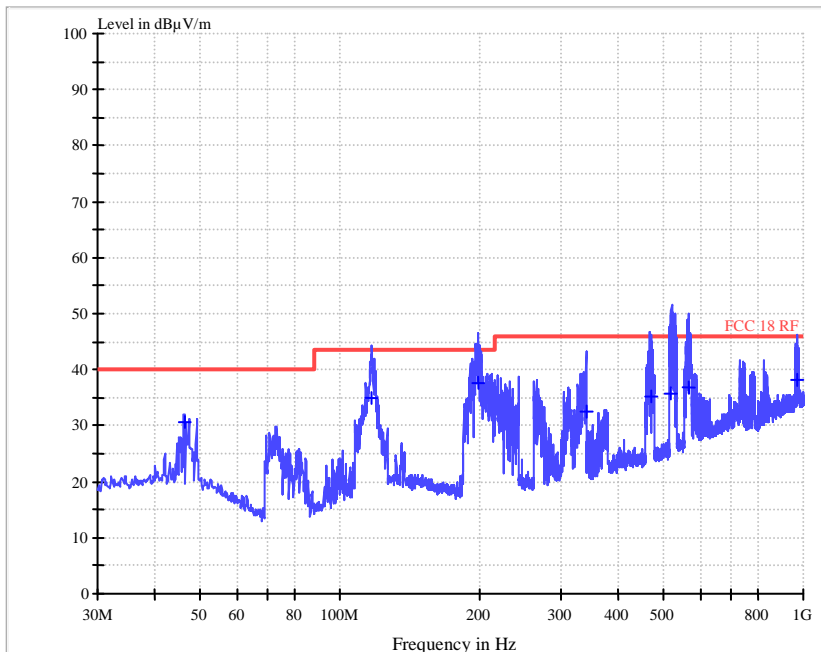
4.2.4 Test Data

| Antenna Polarization | Frequency [MHz] | Measured Net at 3m [dB(μV/m)] | Limit at 3m [dB(μV/m)] |
|---------------------------------|----------------------------|--|-----------------------------------|
| Horizontal | 53.8 | 24.9 | 40.0 |
| Horizontal | 117.8 | 31.6 | 43.5 |
| Horizontal | 415.6 | 31.4 | 46.0 |
| Horizontal | 608.9 | 37.6 | 46.0 |
| Horizontal | 758.8 | 35.5 | 46.0 |
| Horizontal | 889.6 | 36.9 | 46.0 |
| Vertical | 46.2 | 30.6 | 40.0 |
| Vertical | 116.7 | 35.0 | 43.5 |
| Vertical | 198.8 | 37.5 | 43.5 |
| Vertical | 339.5 | 32.5 | 46.0 |
| Vertical | 469.0 | 35.2 | 46.0 |
| Vertical | 519.4 | 35.8 | 46.0 |
| Vertical | 567.4 | 36.7 | 46.0 |
| Vertical | 971.8 | 38.3 | 54.0 |

4.2.5 Test Curve Horizontal



Vertical



4.2.6 Measurement uncertainty

Uncertainty: 4.87 dB in the frequency range of 30-1000 MHz at a level of confidence of 95%

5 Appendix I - Photos of test setup

Conducted Emission



Radiated Emission



6 Appendix II - Photos of EUT

Outside view



Outside view



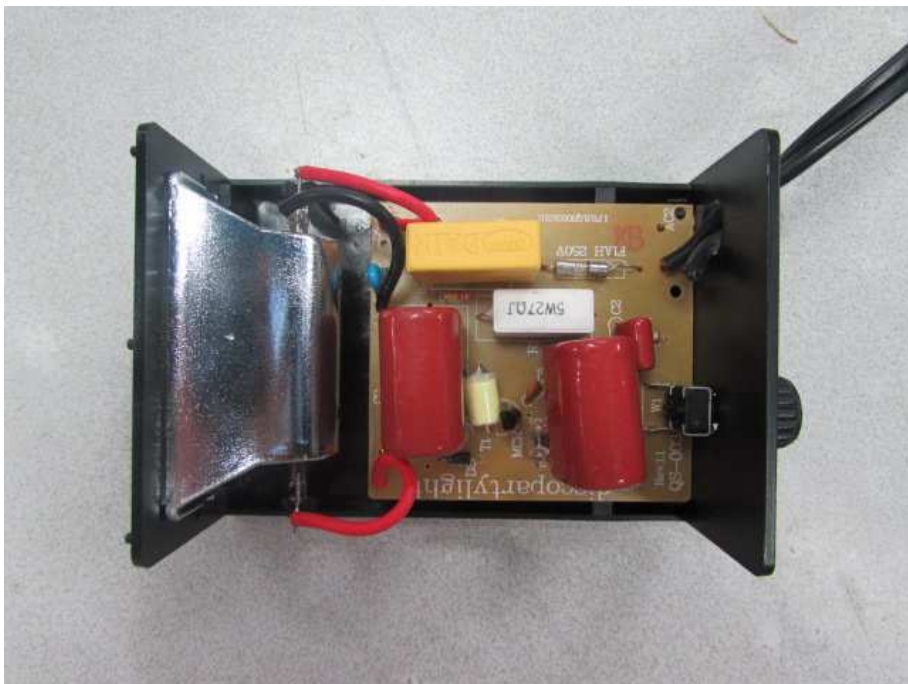
Front view



Back view



Inside view



PCB View

