

TECHNICAL CONSULTING LTD



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 0810062

File reference No: 2009-09-28

Applicant: Xiamen Dekkon Technology Co., Ltd

Product: Energy Saving Lamp

Brand Name: DEK

Model No: T3-SP-23W

Test Standards: FCC Part 18.307

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Sep 28, 2009

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Xiamen DEKKON Technology Co.,Ltd
Address: No.1 Buiding No.289 Wenjiao Road Xinyang Industry District Haicang Xiamen
Telephone: +86-592-6809009
Fax: +86-592-6809008

1.3 Description of EUT

Product: Energy Saving Lamp
Manufacturer: Xiamen DEKKON Technology Co.,Ltd
Address: No.1 Buiding No.289 Wenjiao Road Xinyang Industry District Haicang Xiamen
Brand Name: DEK
Model Number: T3-SP-23W
Additional Model Number: T3-SP-20W
Rating: Input: 120V~, 60Hz, 23W
Remark: --

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2009-12-31 to 2009-01-15

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tong

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1 Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1 Year
LISN	NTFM8136	8136102	SCHWARZBECK	2009.2.24	1 Year

3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 18 Subpart C

The report refers only to the sample tested and does not apply to the bulk.

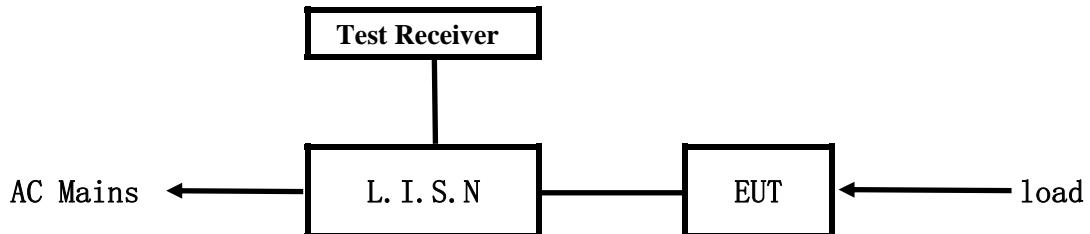
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4.0 Conducted Power line Test

4.1 Schematics of the test

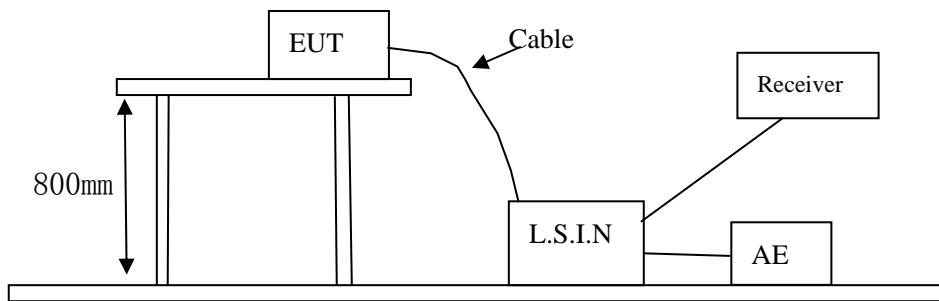


EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Block diagram of Test setup



4.3 Power line conducted Emission Limit

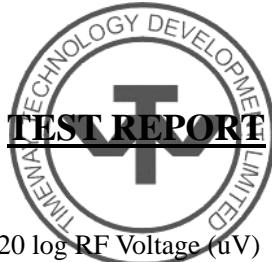
Frequency(MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN (uV)
Non-consumer equipment	
0.45-1.6	1000
1.6-30	3000
Consumer equipment	
0.45-2.51	250
2.51-3.0	3000
3.0-30	250

Notes: 1. *decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

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3. RF Voltage (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$

4.4 Test Results

The frequency spectrum from 0.415MHz to 30MHz was investigated. All reading are peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal of the power line (450kHz to 30MHz)

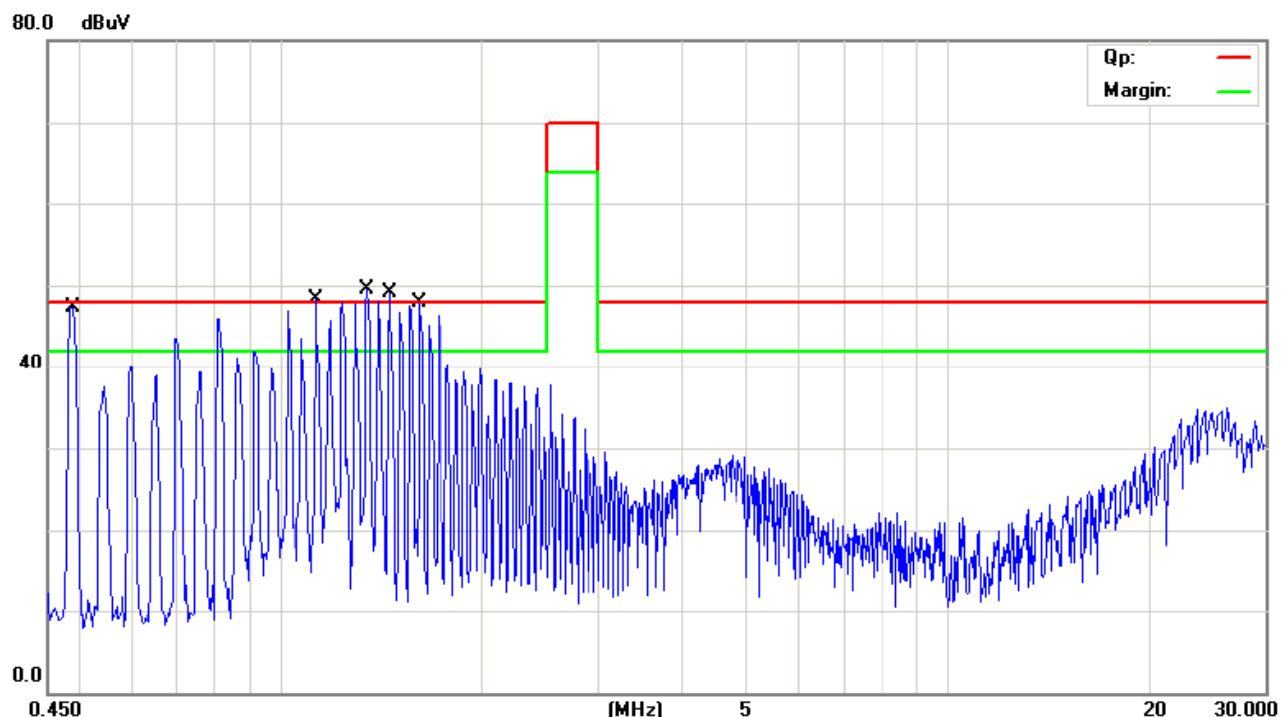
EUT set Condition: Normal operation mode

Level Class B

Results: Pass

Model: T3-SP-23W

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)		Limit (dB μ V)
	Live	Neutral	
	QP	QP	QP
0.488	44.06	-	48
1.140	43.46	-	48
1.463	44.99	-	48
1.627	43.85	-	48
1.3570	45.04	-	48

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B: Conducted Emission on Neutral Terminal of the power line (450kHz to 30MHz)

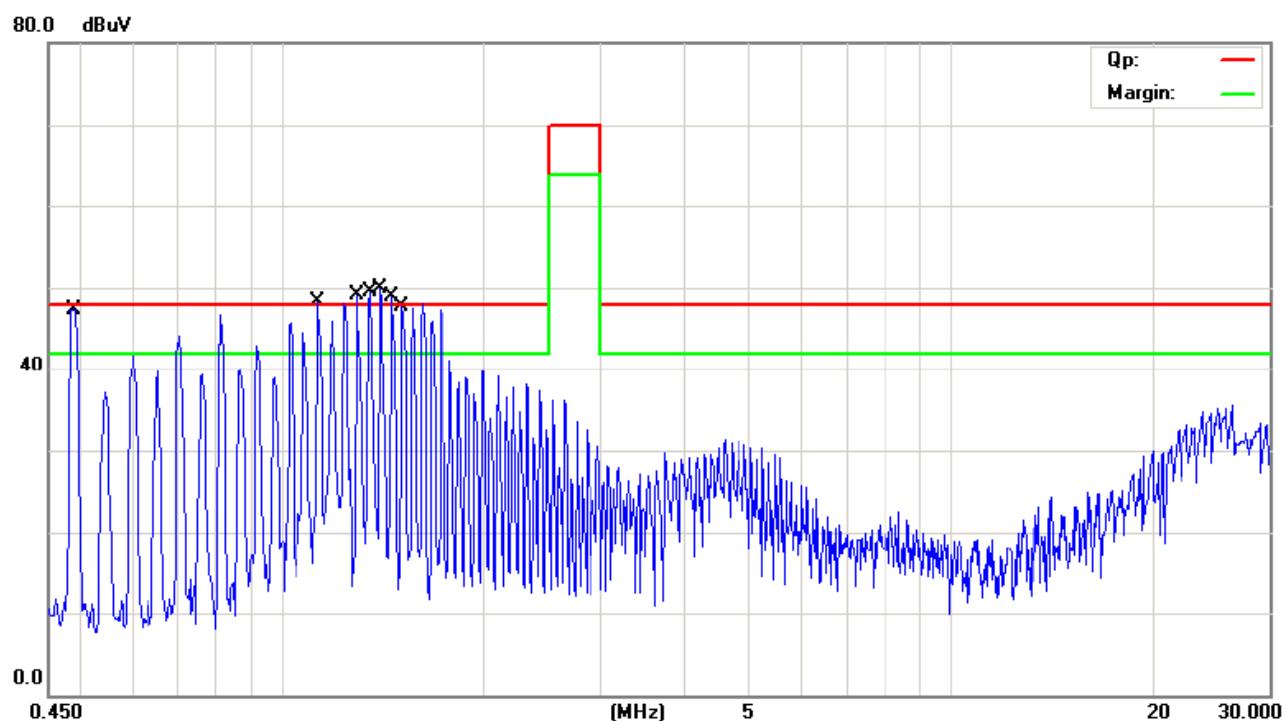
EUT set Condition: Normal operation mode

Level Class B

Results: Pass

Model: T3-SP-23W

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)		Limit (dB μ V)
	Live	Neutral	
	AV	AV	
0.489	-	44.16	48
1.303	-	43.82	48
1.357	-	45.44	48
1.411	-	44.36	48
1.466	-	44.29	48
1.520	-	43.51	48
1.135	-	44.15	48

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C: Conducted Emission on Live Terminal of the power line (450kHz to 30MHz)

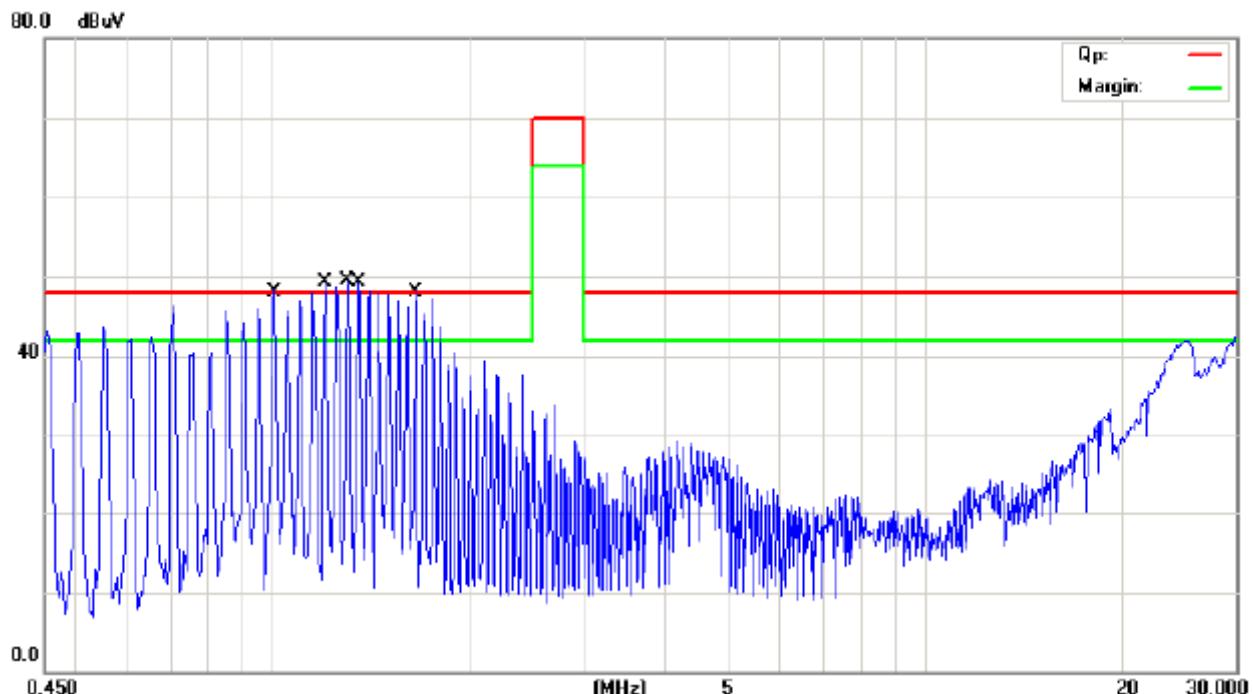
EUT set Condition: Normal operation mode

Level Class B

Results: Pass

Model: T3-SP-20W

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)		Limit (dB μ V)
	Live	Neutral	
	QP	QP	QP
1.008	45.20	-	48
1.210	46.48	-	48
1.311	46.92	-	48
1.362	45.64	-	48
1.665	44.17	-	48

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D: Conducted Emission on Neutral Terminal of the power line (450kHz to 30MHz)

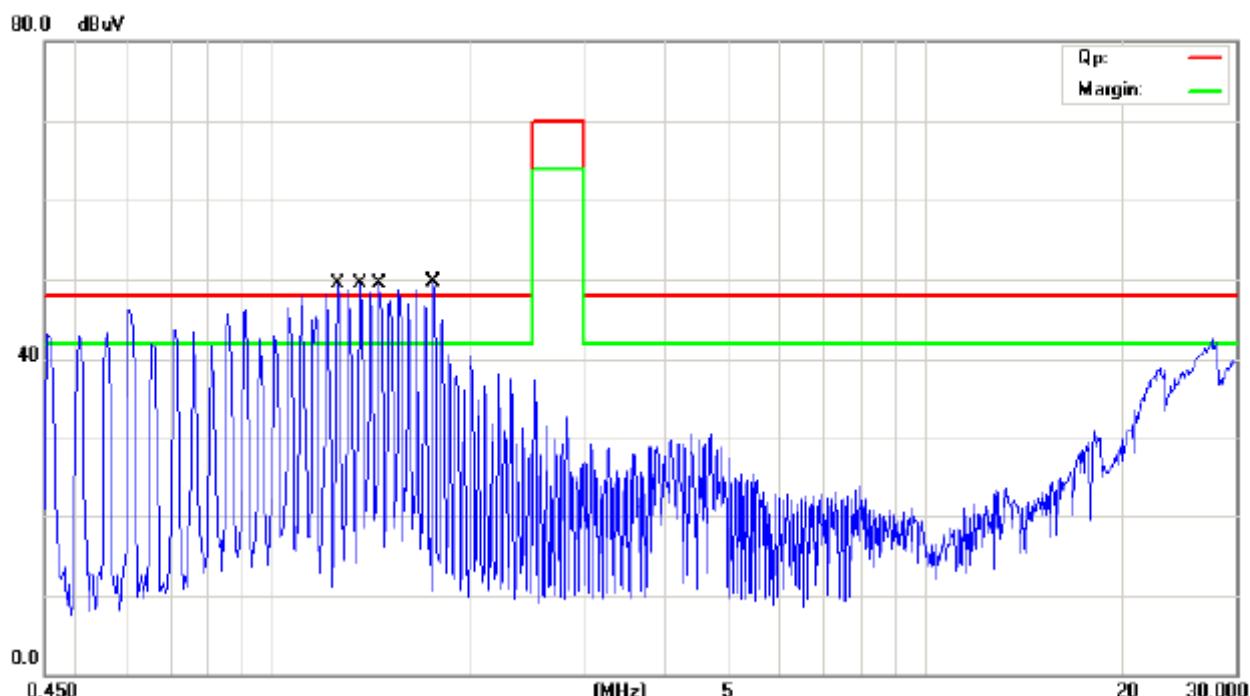
EUT set Condition: Normal operation mode

Level Class B

Results: Pass

Model: T3-SP-20W

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)		Limit (dB μ V)
	Live	Neutral	
	AV	AV	
1.264	-	45.01	48
1.366	-	45.15	48
1.467	-	44.39	48
1.770	-	44.71	48

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5.0 FCC ID:

This device complies with part 18 of FCC Rules.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:

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6.0 Photo of testing

6.1 Conducted test View--



DSC-H10 F3.5 1/20s ISO400

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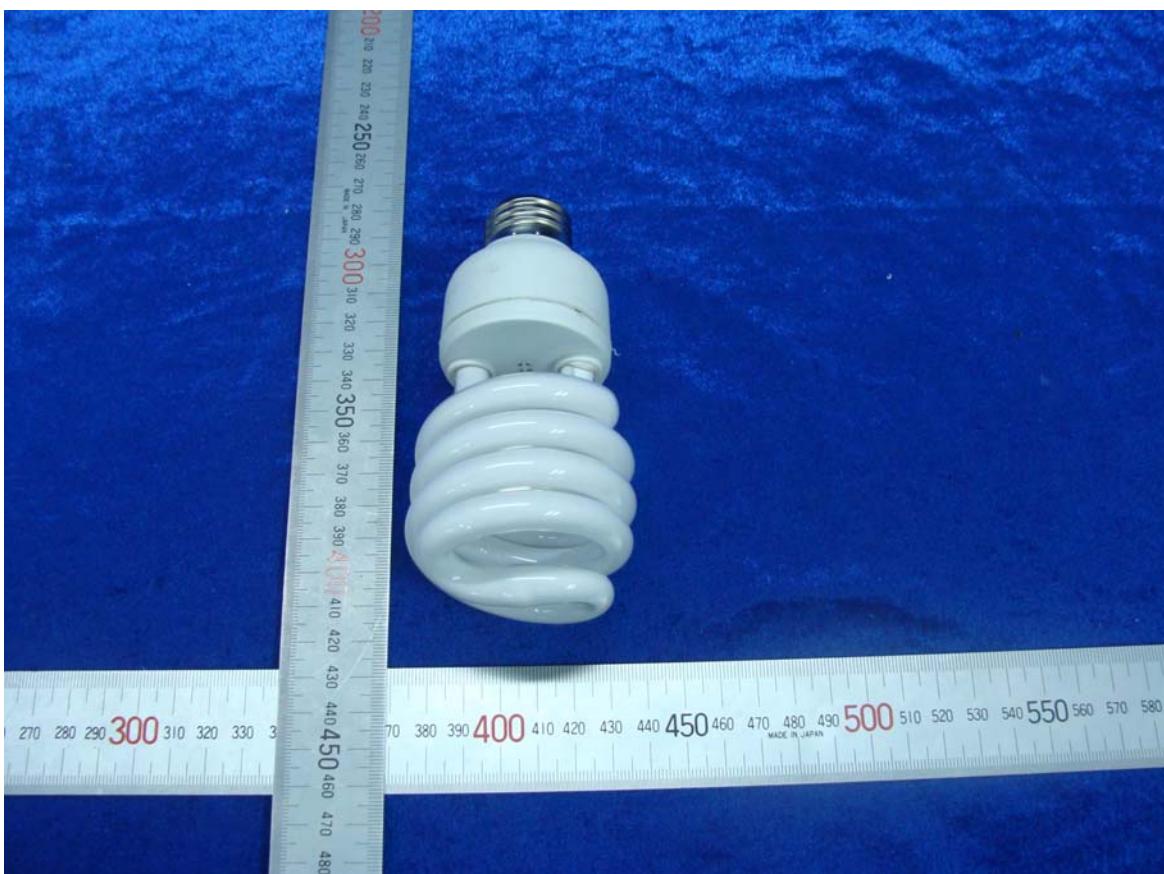
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Model: MN3U1215

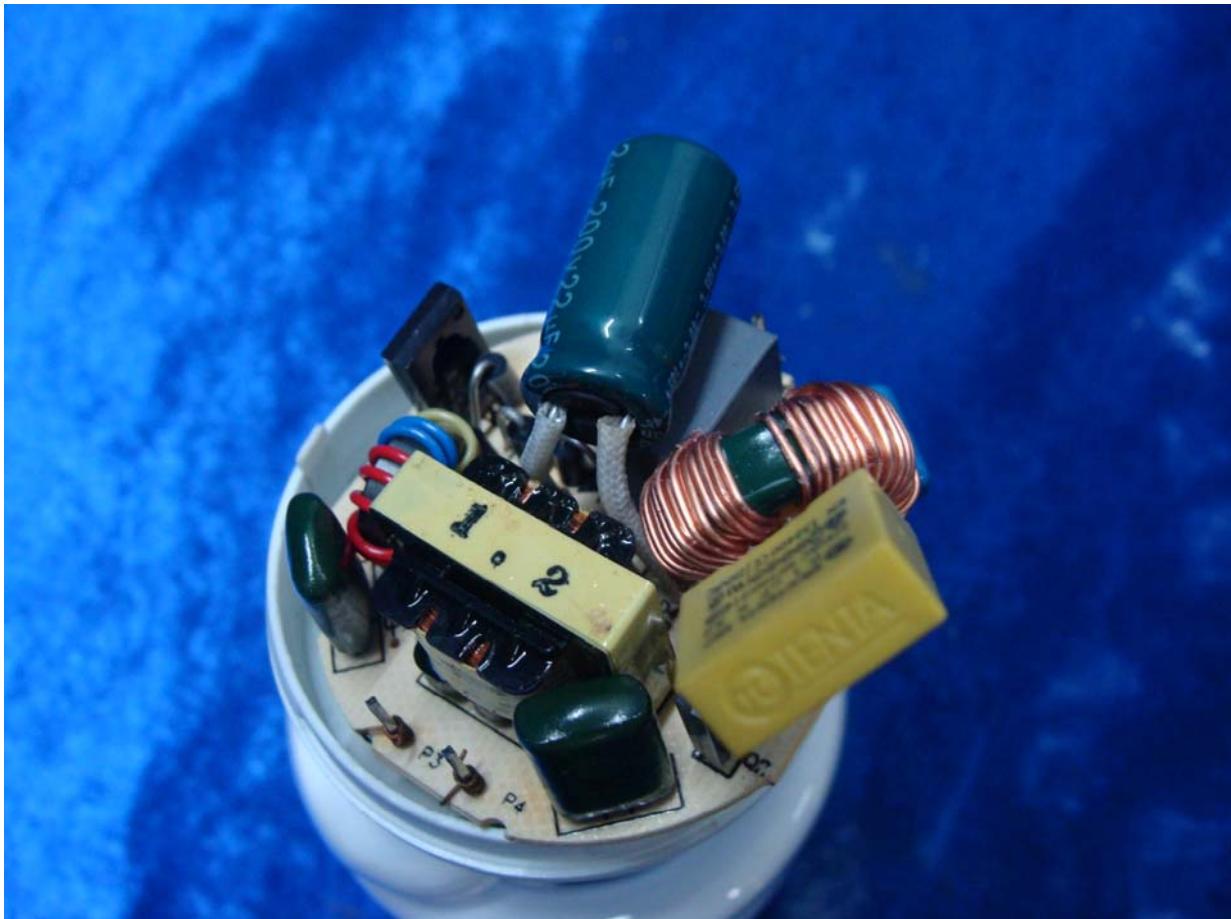
6.3 Photo for the EUT



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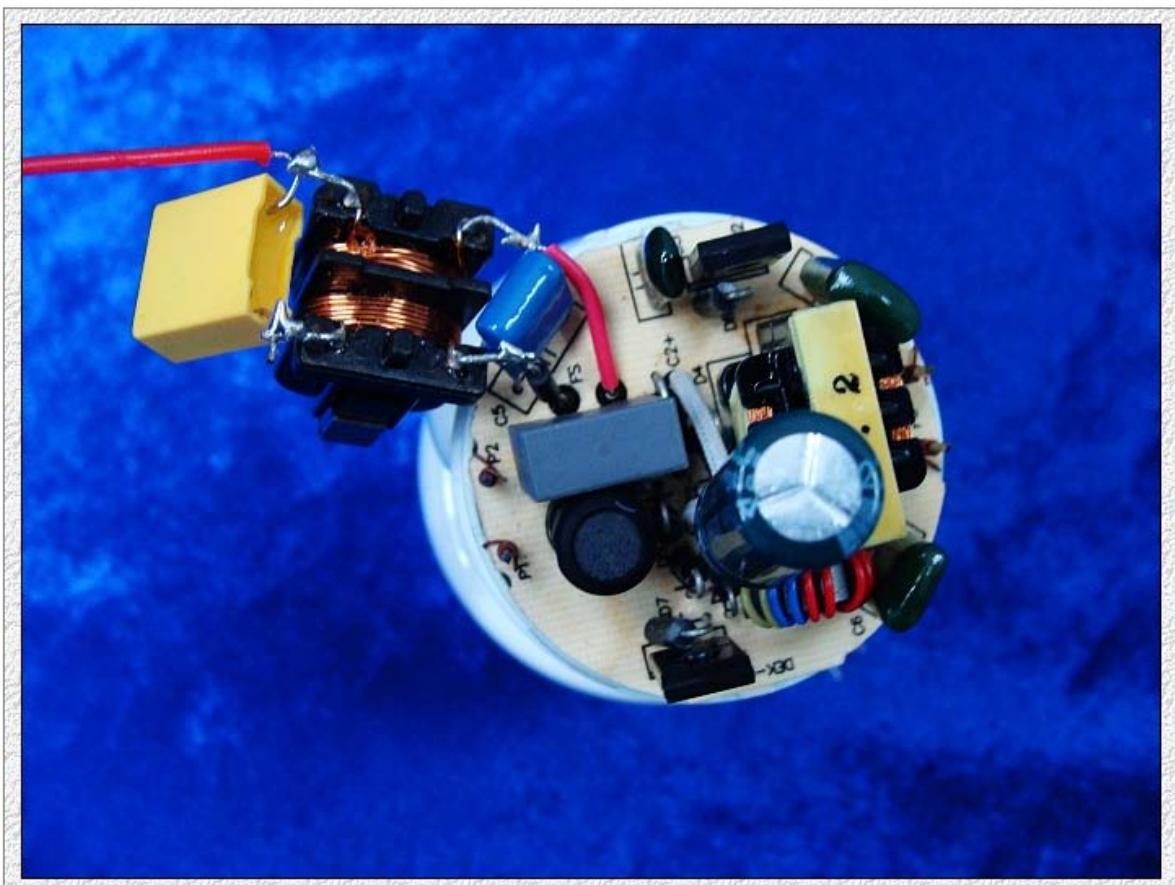
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Photo for the EUT

Model: MN3U1220



DSC-H10 F3.5 1/10s ISO400

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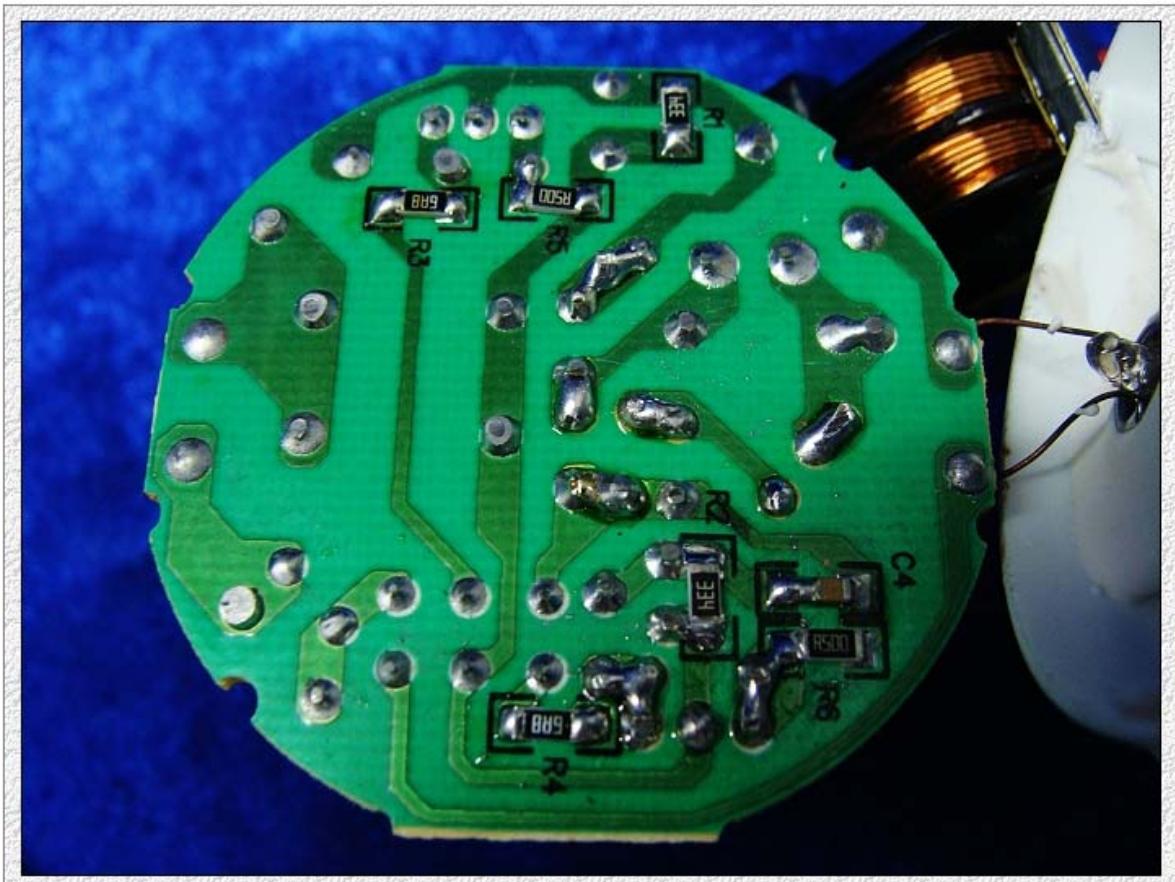
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Photo for the EUT

Model: MN3U1223



DSC-H10 F3.5 1/10s ISO400

-End of the report-

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