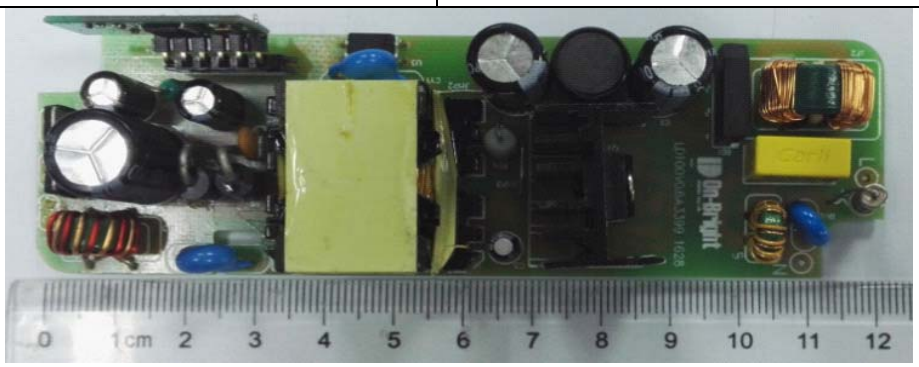
Subject	
2.4G Dimmable 60W LED Lighting Demo Board Manual	Board Model: LD100V0.6A3399.1637 Doc. No.: OB_DOC_DBM_3399+2100+6122L03



120mm（L）*38mm（W）*23mm（H）

Key Features

- 2.4G color temperature and brightness adjustable for two-channel LED lighting application
- Isolated and primary-side constant current controller with ±5% current regulation
- Fast startup time 570mS@ 176Vac and low standby power 0.47W@ 264Vac
- Wide dimming range from 2% to 100%
- Open circuit protection
- No visible flicker
- EMI Meet EN55015

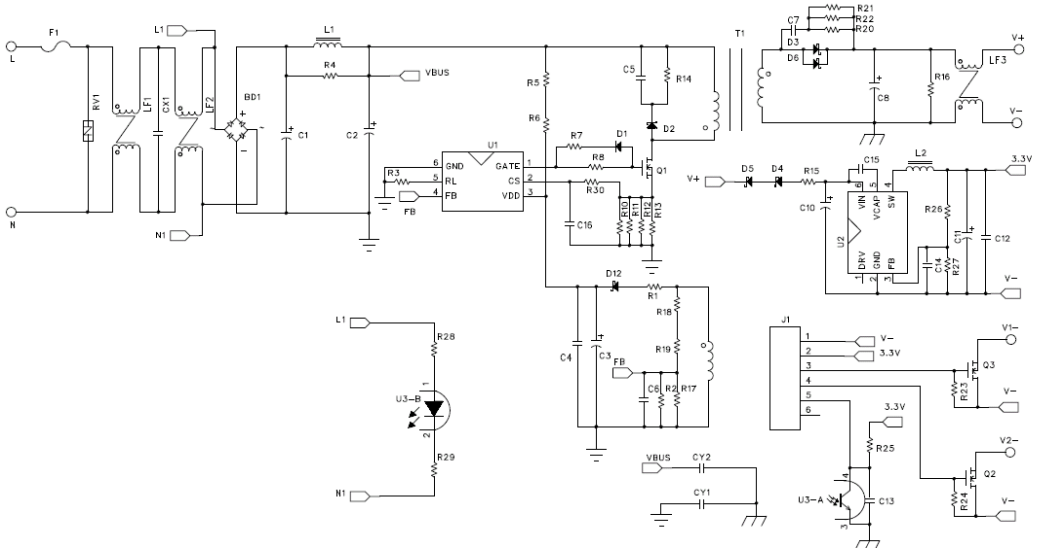
Note: The test data in this report is by 32 Series 2 Parallel 1W LED array, AC voltage from 176Vac to 264Vac, 100% dimming duty if not otherwise noted.

Revision History

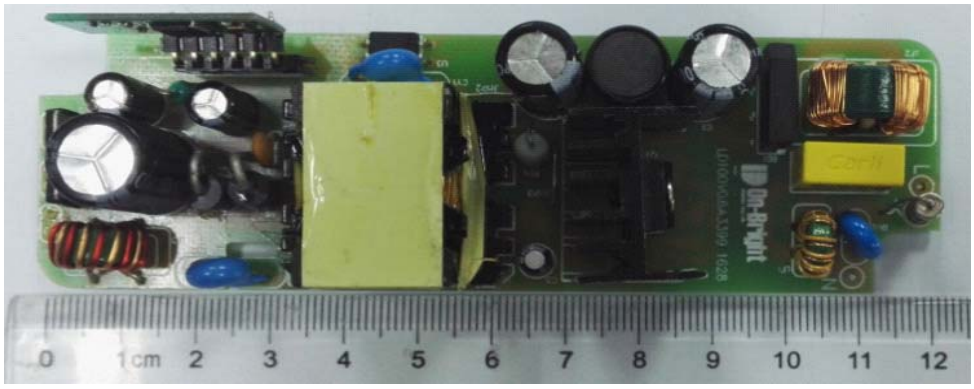
Revise Date	Version	Reason/Issue
2016-06-12	00	First issue
2016-08-03	01	Changed LDO to OB2100
2016-09-29	02	Updated BOM
2017-08-01	03	Changed Q2 and Q3 model, add zener D5.

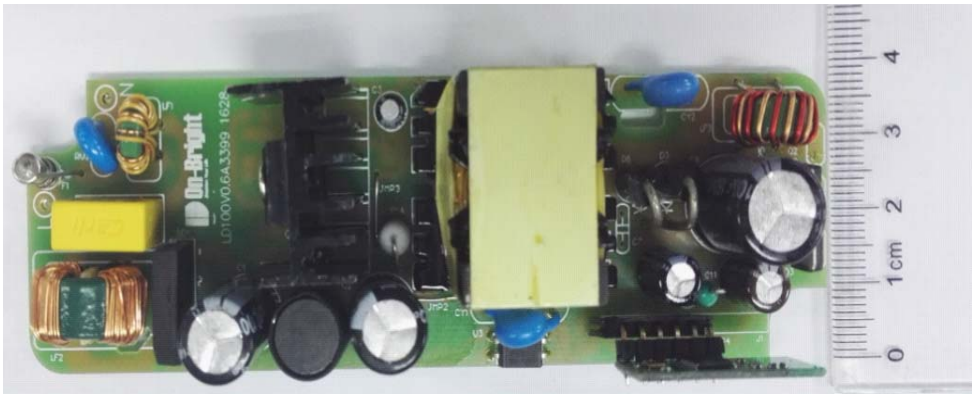
1 LED Lighting Information

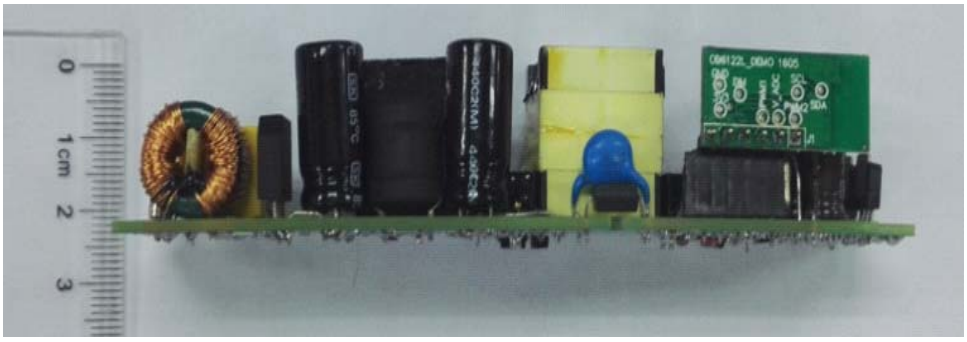
2.1 Schematic



2.2 Module Snapshot







2 Performance Evaluation

Performance Highlights

- Standby power under 500mW@264VAC
- Efficiency more than 88%@230VAC
- Startup time <0.6s
- EMI passed EN55015 test with more than 6dB margin.

Characterization Results Summary

Test Item	Test result
1. Input characteristics	
Standby power @230Vac	0.41W
Efficiency @230Vac	89.34%
2 .Output characteristics	
Current overshoot	0%
3. Time sequence	
Turn on delay time @176Vac	570ms
4. Protections	
Open Circuit protection	OK

Disclaimer