

Chris Harvey

From: Delisi, Bob <Bob.Delisi@ul.com>
Sent: Tuesday, September 24, 2013 7:46 AM
To: Harvey, Christopher
Cc: Harvey, Christopher; Hoque, Claire; danieljoonpark@hotmail.com
Subject: RE: Lutron Electronics Co Inc, //JPZ0099 //AN13T0557 & AN13I5293 Notice #1
Attachments: PWB Differences.pdf; 10067364 - Pico Plug-in C2PC FCC IC 15.231 Report Final R1.pdf; Internal Photos r1.pdf; Label and Location.pdf

Hi Chris,

Attached is the revised report and below are responses to your questions

1. The update to the filter was not part of a layout change, it was a matter of when the PWB was laid out to this final version, the values of the filter components changed to match this PWB to our original sample. The some of the traces on the original sample were created by hand, as a result of our preliminary evaluation prior to submittal. Since the finished PWB is laid out with more precision than anyone can do by hand, the final version of the product had different performance characteristics from the original. The filter component values were adjusted to meet the original PWB test results. We were able to meet or exceed the performance of the original sample for the fundamental frequencies, however the harmonics were not within the limits required to be a Class I permissive change. This is what resulted in our need to perform the Class II evaluation. The Bill of Materials has been updated to reflect these value changes.

Some of the existing traces were shifted to provide additional separation from RF components and/or traces.

2. The omission of the inductor (L2 or L5) was an error with regard to the photo used. The difference between L2 and L5 is the type of inductor used, shielded vs. unshielded. L2 is a shielded inductor used to correct an issues found during conducted emissions in our original submission. It was our intent to use a non-shielded part, for cost reasons, but the non-shielded part (L5) does not have to proper performance needed for conducted emissions. We had attempted to correct this with the addition of C13, but found this did not have the results we sought. To avoid delays, we are continuing to use the shielded L2 inductor. The pads for C13 do appear on the PWB layout, however, we are not populating C13 for this version. Since L2 and L5 used the same pads on the PWB, L2 and L5 would never be populated at the same time.

3/4/5 - see attached revised report.

6. I updated the photos to show L2 placed, and to include a label exhibit. All finished product will be shipping with PWB 470-4022.

If you have any questions please let me know.

Thanks

Bob DeLisi
WiSE Principal Engineer
WiSE (Wireless, Interoperability, payment Security, & EMC) Segment

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-----Original Message-----

From: Chris.Harvey@ul.com [mailto:Chris.Harvey@ul.com]

Sent: Monday, September 23, 2013 3:26 PM

To: Delisi, Bob

Cc: Harvey, Christopher; Hoque, Claire; danieljoonpark@hotmail.com

Subject: Lutron Electronics Co Inc, //JPZ0099 //AN13T0557 & AN13I5293 Notice #1

Dear Bob,

You are listed as the Technical Contact for the above referenced TCB application. The following item(s) need(s) to be resolved before the review can be continued:

1. The C2PC Cover Letter indicates that the PWB layout and filtering has been changed, but no details have been provided. Please provide further details of the changes made to this device, including comparison photos of the original showing the changes made to this new version.
2. It appears that the Photos have L2 and L5 that are not populated, but these still show in the Schematic exhibit for this C2PC application as being present. Please update the Schematic exhibit showing what has changed in this C2PC application.
3. At page 13 of the test report, the table for limit seems to have a superscript that 'fallen down' into the limit values which should be raised to superscript for note 1.
4. At page 14 of test report, the 15.209(a) table didn't show the 9KHz to 30 MHz limits. Additionally, the data for Radiated Emissions below 30MHz is missing from the report, and there is no justification for exclusion.
5. Also, please add "-" within frequencies in the "***Except." paragraph.
6. Please also provide the IC Label exhibit which is required for IC Reassessments.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender. Revised documentation should not be emailed, but instead should be submitted through "Add Attachment" function at the UL-CCS website. Please have your Assessment Number and FCC ID/IC Certification number handy. You may use the following link: <https://cert.ccsemc.com/filing/>

Best regards,

Chris Harvey

Chris.Harvey@ul.com

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No virus found in this message.

Checked by AVG - www.avg.com

Version: 2014.0.4117 / Virus Database: 3604/6682 - Release Date: 09/19/13