



Product Change Notice

PCN Number: 14-0415-01
Issue Date: 28-APRIL-2014

Exar Corporation
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PRODUCTS AFFECTED:

SP6699EK-L/TR

CHANGE CATEGORY:

- | | | |
|--|---|---|
| <input type="checkbox"/> Material | <input type="checkbox"/> Process | <input type="checkbox"/> Package |
| <input checked="" type="checkbox"/> Design | <input checked="" type="checkbox"/> Datasheet | <input type="checkbox"/> Packing/Shipping |
| <input type="checkbox"/> Other: (specify) | | |

DESCRIPTION OF CHANGE:

The SP6699 has been modified to better meet the needs of the low current LED driver customers. The primary functional change is the significant improvement in digital PWM control by increasing the logic level low value for the CTRL pin from 50mV to 500mV and eliminating the analog dimming feature. Maximum recommended PWM dimming frequency has been increased from 1kHz to 2kHz. In order to increase the number of LEDs possible in a string from 5 to 6, the ABS MAX switch voltage has been increased from 27 to 38 with an associated increase in the OVP threshold from 27V to 30V. In order to allow customers to reduce size in future designs, yet require no changes by current customers, the nominal switching frequency has been increased from 1.0MHz to 1.2MHz. The performance of the reference over temperature has been improved and the current limit has been made constant with duty cycle.

IMPACT OF CHANGE:

The SP6699 has been updated to improve compatibility with PWM dimming inputs.

TARGET IMPLEMENTATION DATE: 28-JULY-2014

Please contact customer support (customersupport@exar.com) for sample date availability or qualification data

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