



**PCN: V14-001-48475417-0A**

**Product Change Notice**

**Issue Date: 22 April 2014**

**Change Type:**

Avago Technologies has qualified alternate InGaN green color die for Subminiature Lamps.

**Parts Affected:**

HLMP-PM00-N0000	HLMP-QM00-S0011	HLMP-QM00-V0012	HLMP-PM00-N0031
HLMP-PM00-N0011	HLMP-PM00-TUC11	HLMP-QM00-S0012	HLMP-QM00-VW000
HLMP-PM00-N0012	HLMP-QM00-S0000	HLMP-QM00-S0031	QLMP-QM49-S0000
<u>HLMP-PM00-ST000</u>			

**Description and Extent of Change:**

The selected die shall be the alternate option for the existing InGaN green color die for Subminiature Lamps. The new die will have the same functionality as the existing die.

**Reasons for Change:**

To ensure continuous supply of InGaN green color die for Subminiature Lamps.

**Effect of Change on Fit, Form, Function, Quality, or Reliability:**

There is no change in fit, form and function as per datasheet. Qualification and characterization have been conducted to ensure that the performance is comparable.

**Effective Date of Change:**

The shipment of this alternate dice source will begin from **22 July 2014** onwards.

**Qualification Data:**

Test Name	MIL-STD/JEDEC Reference	Test Conditions	Units Tested	Units Failed up to 500hrs
Temperature Cycle	Avago Req.	-55°C/100°C, 15 min dwell, 5 min transfer, 1000 cycles	600	0
Temperature Humidity Operating Life	JESD22-A101	Ta= 85°C, RH = 85%RH, 10mA, 1000hrs	112	0
High Temperature Operating Life	JESD22-A108	Ta = 55°C, 28mA, 1000hrs	112	0
Temperature Humidity Reverse Bias	Avago Req.	TA = 85°C, 85%RH, Vr = 5V for 1000 hours	112	0

Qualification test has been carried out up to 1000 hours and the approved test data will be available upon request.

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification, A-5962-6052-80.

Please contact your Avago Technologies field sales engineer or Contact Center (<http://www.avagotech.com/contact/> ) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.