

## Product Change Notice

Issue Date: 15<sup>th</sup> April 2014

**Change Type:**

Please be informed that Avago Technologies is making the following product changes on PLCC LEDs listed below:

**Parts Affected:**

Introduction of an alternate LED die source for PLCC LED part numbers.

HSMA-A430-W90M1	HSMA-A431-Y00M1	HSMC-A431-X90M1
HSMA-A431-X90M1	HSMA-A460-W50M1	HSMC-A461-V00M1
HSMA-A431-X9NM1	HSMC-A430-W50M1	QSMA-A434-Y40M1

**Description and Extent of Change:**

The selected LED die source had undergone Avago Technologies's qualification process and is deemed suitable as alternate LED die source for PLCC LEDs.

**Reasons for Change:**

To ensure continuity of supply for part numbers.

**Effect of Change on Fit, Form and Function**

There is no effect on fit, form and function as per datasheet. Qualification and characterization have been conducted to ensure both existing and alternate LED die source are comparable.

**Effective Date of Change:**

The alternate LED die source will begin on 14<sup>th</sup> July 2014.

**Qualification Data:**

Test Name	MIL-STD/JEDEC Reference	Test Conditions	Units Tested	Units Failed
-	-	-	-	-
Temperature Cycle	Avago Req	-40°C/100°C, 15 min dwell, 5 min transfer, 500 cycles	600	0
Temperature Humidity Storage Life	Avago Req	TA= 85°C, RH = 85%RH, 1000hrs	336	0
Temperature Humidity Operating Life	JESD22-A101	TA= 85°C, RH = 85%RH, (AllnGaP) 22mA, 500hrs	336	0
High Temperature Operating Life	JESD22-A108	(AllnGaP) TA = 55°C, 49mA, 500hrs	336	0
Temperature Humidity Reverse Bias	Avago Req.	TA = 85°C, 85%RH, Vr = 4V for 500 hours	96	0
Auto Clave (UBPP)	JESD22-A-102	TA = -121°C; 100%RH, 15psig for 96hrs	84	0
DPTMCL	Q-1000-102	-40°C/85°C, 15 min dwell, 5 min transfer, 5min on/off at derated current for 100cycles	168	0

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.