

PCN: V09-009-48475417-0A

# **Product Change Notice**

Issue Date: 13Nov2009

## **Change Type:**

Avago Technologies has qualified replacement dice of InGaN blue and green die for SMT Subminiature Lamps and has changed the data sheet on the viewing angle.

#### **Parts Affected:**

HLMP-QM00-S0000
HLMP-QM00-S0011
HLMP-QM00-S0031
HLMP-QB00-S0000
HLMP-QB00-S0011
HLMP-QB00-TU000
HLMP-QB00-TU011
HLMP-QB00-TUC11
HLMP-QB00-TUC31

#### **Description and Extent of Change:**

The selected die shall be the replacement for current die using in blue and green Subminiature Lamps.

#### **Reasons for Change:**

To ensure the continuous supply of InGaN Subminiature Lamps.

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

There is no change in term of fit & form.

All functional remains no change as per datasheet except for the viewing angle. Please refer to below for detail.

Items	Summary
Color (λ <sub>d</sub> )	No change as per datasheet.
Electrical (Vf & Vr)	No change as per datasheet.
ESD Threshold Voltage	No change as per datasheet.
Optical (Iv)	Min and max Iv no change as per datasheet.  Typical Iv for green change from bin V and W to bin U and V.  Typical Iv for blue change from bin T to bin T and U.
Viewing Angle	Change in Typical value, Existing = 20°; New = 12°

#### **Effective Date of Change:**

The shipment of this replacement dice source will begin from 10 Dec 2009 onwards.

## **Qualification Data:**

Qualification has been carried on and 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 (<a href="http://www.avagotech.com/contact/">http://www.avagotech.com/contact/</a>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.