



**PCN: V12-003-00475504-OA**

## **Product Change Notice**

**Issue Date: 29 June 2012**

**Change Type:**

Change the LED, photodiode and shield

**Parts Affected:**

HSDL-9100-024

**Description and Extent of Change:**

Alternate supply for materials (LED, Photodiode, PCB, metal shield)

**Reasons for Change:**

Assurance of raw material supply to support the HSDL-9100-024. It is complying with Avago's BCP (Business Continuity Plan).

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

The device specification will remain the same, which will ensure product electrical performance remains the same. Appropriate electrical characterization and reliability qualification will be performed on representative products to insure normal parametric distribution, consistent electrical performance, and reliability.

**Effective Date of Change:**

To be implemented on WW31 onwards (from 1<sup>st</sup> week of August 2012).

Both current and new parts look similar.

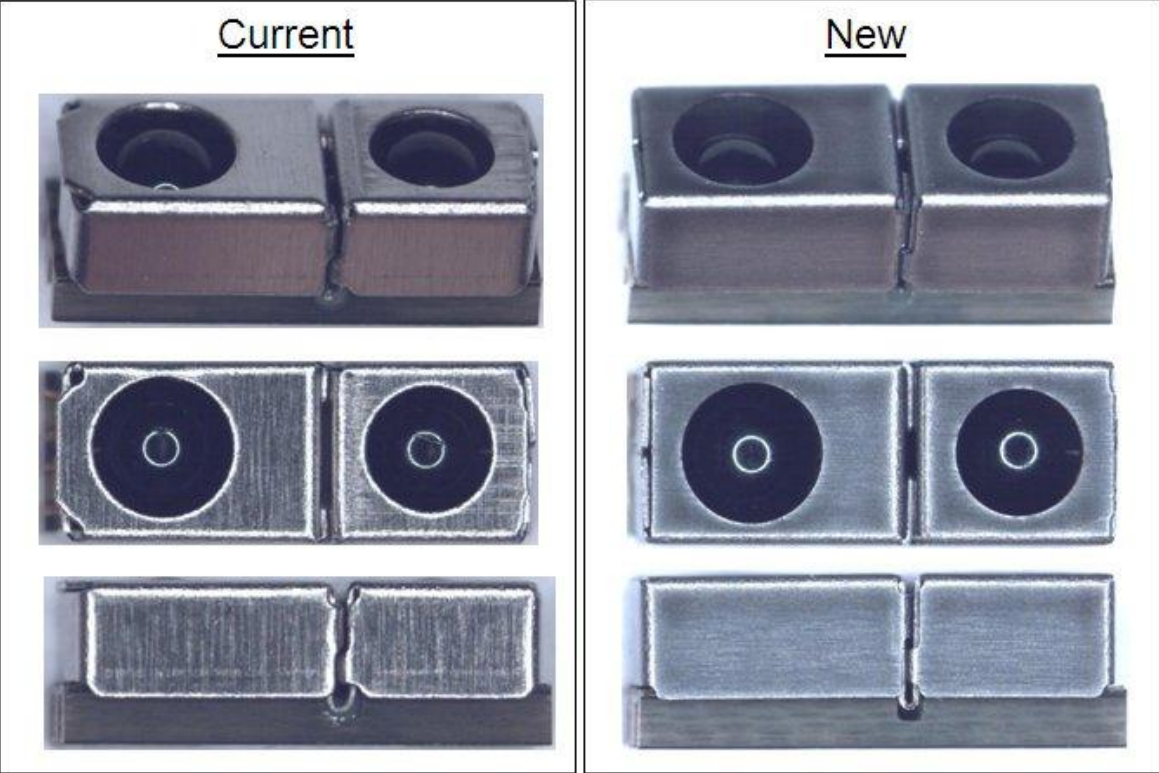


Figure 1: Comparison of the current and the new HSDL-9100-024 (optical inspection)

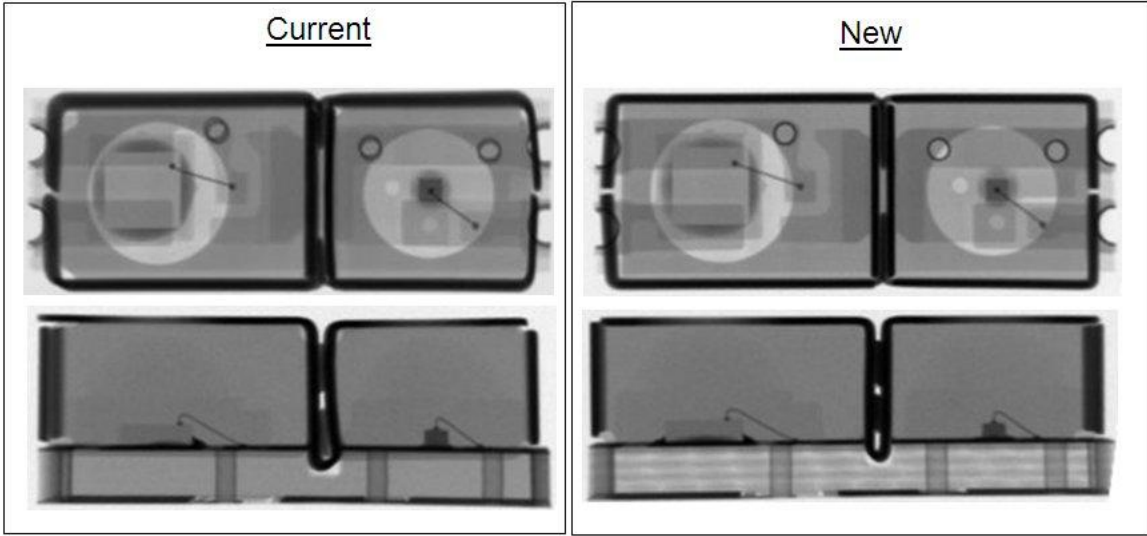


Figure 2: Comparison of the current and the new HSDL-9100-024 (using X-ray).

**Qualification Data:**

Qualification data for HSDL-9100-024 is illustrated below.

Test Name	Test Conditions	Duration	Units Tested	Results
Pre-condition	1. Soak samples for 192 hrs at 30°C / 60%RH ( for MSL level 3 ) 2. 3x convection reflow at 260°C 3. 5 T/C at -40/100°C	192hrs	511	Passed
Temperature Cycle	-40°C to 100°C: 15 minutes dwell, 5 minutes transfer.	200 cyc	77	Passed
Unbiased HAST	131 ° C , 85% RH , 2 atm	96hrs	77	Passed
Temperature Humidity Bias	85°C / 85 %RH, Vcc=3.0V, Iled=50mA, Txd=115.2KHz, 20% duty cycle	500hrs	56	Passed
Low Temperature Operating Life	Ta= - 40°C, Vcc=3.0V, Iled=50mA, Txd=115.2KHz, 20% duty cycle	500hrs	56	Passed
High Temperature Operating Life	Ta= 85°C, Vcc=3.0V, Iled=50mA, Txd=115.2KHz, 20% duty cycle	500hrs	56 x 3	Passed
Temperature Humidity Storage Life	85°C / 85 %RH,	500hrs	77	Passed

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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.