

## Product Change Notice

Issue Date: 22nd December 2014

### Change Type:

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

- 1) Introduction of an alternate LED die source
- 2) Introduction of an alternate encapsulant source
- 3) Change gold wire size from 1.2mils to 1.0mil
- 4) Change the reel orientation

### Parts Affected:

#### **Group 1**

Group 1 involved all 4 changes above.

Please refer to appendix 1 for part numbers involved.

#### **Group 2**

Group 2 involved changes on item 1, 2 and 3 only.

Please refer to appendix 2 for part numbers involved.

### Description and Extent of Change:

#### **1. Alternate LED die source**

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

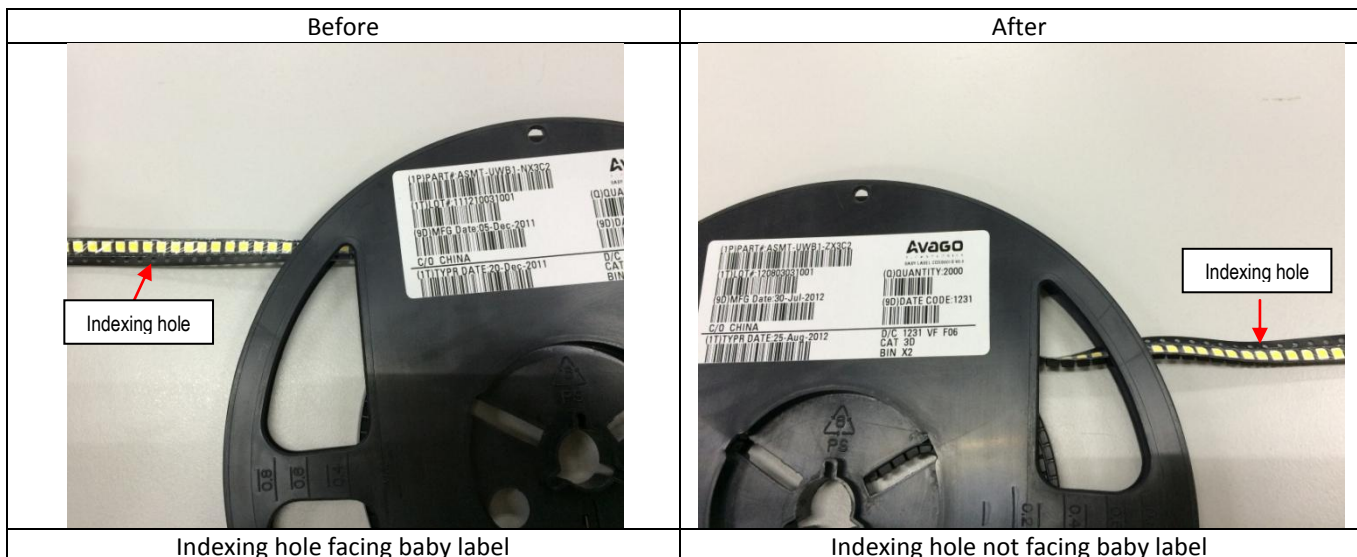
#### **2. Alternate LED encapsulant source**

The selected LED encapsulant source had undergone Avago Technologies's qualification process and is deemed suitable as alternate LED encapsulant source.

#### **3. Change of wire size**

The selected wire size had undergone Avago Technologies's qualification process and is deemed suitable to replace current gold wire size.

#### **4. Change of reel orientation**



**Reasons for Change:**

**1. Alternate LED die source**

Assurance of supply

**2. Alternate LED Encapsulant**

Assurance of supply

**3. Change of wire size**

Bond pad size is getting smaller. Hence, wire size has to be reduced for good bondability control.

**4. Change of reel method**

To standardize taping process to prevent administration error.

**Effective Date of Change:**

The shipment with above changes will commence 90days upon PCN issuance date.

**Qualification Data:**

Test Name	MIL-STD/JEDEC Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycle	Avago Req	-40°C/100°C, 30 min dwell, 5 min transfer, 1000 cycles	468	0
Temperature Cycle	Avago Req	-40°C/100°C, 15 min dwell, 5 min transfer, 1000 cycles	468	0
Temperature Humidity Storage Life	Avago Req	Ta= 85°C, RH = 85%RH, 1000hrs	168	0
Temperature Humidity Operating Life	JESD22-A101	Ta= 85°C, RH = 85%RH, 16mA, 1000hrs	168	0
High Temperature Operating Life	JESD22-A108	Ta = 70°C, 22mA, 1000hrs	168	0
High Temperature Operating Life	JESD22-A108	Ta = 55°C, 30mA, 1000hrs	168	0
High Temperature storage Life	Avago Req	Ta= 100°C, 1000hrs	168	0
Pulse test	Avago Req	Ta= 25°C, DF10%. Freq 1khz, 100mA, 1000hrs	84	0

## Appendix 1

ASMT-UWB1-NX302	ASMT-UWB2-NW7H2	ASMT-UWB2-ZX3C2	QSMT-UWLM-ZX7C2
ASMT-UWB1-NX312	ASMT-UWB2-NW7J2	ASMT-UWB2-ZX3D2	QSMT-UWWM-ZX3B2
ASMT-UWB1-NX3A2	ASMT-UWB2-NX302	ASMT-UWB2-ZX3E2	QZMT-UWHS-NX3Z2
ASMT-UWB1-NX3B2	ASMT-UWB2-NX3A2	ASMT-UWB2-ZW7F2	QSMT-UWAG-ZX7B2
ASMT-UWB1-NX3C2	ASMT-UWB2-NX3B2	ASMT-UWB2-ZW7G2	QSMT-UWP1-ZX3Z2
ASMT-UWB1-NX3D2	ASMT-UWB2-NX3C2	ASMT-UWB2-ZW7H2	QSMT-UWP2-ZX3Z2
ASMT-UWB1-NX3E2	ASMT-UWB2-NX3D2	ASMT-UWB2-ZW7J2	QSMT-UWJC-ZX3B2
ASMT-UWB1-NX3F2	ASMT-UWB2-NX3E2	ASMT-UWB1-ZAAB2	QSMT-UWS1-ZX3Z2
ASMT-UWB1-NX3G2	ASMT-UWA1-ZX3C2	ASMT-UWB1-ZAAC2	QSMT-UWKB-ZX3Z2
ASMT-UWB1-NX3H2	ASMT-UWA1-ZX7C2	ASMT-UWB1-ZAAD2	QSMT-UWAE-ZX7Z2
ASMT-UWB1-NX3J2	ASMT-UWA1-ZX302	ASMT-UWB1-ZAAF2	QSMT-UWAE-ZX7C2
ASMT-UWB1-NAAB2	ASMT-UWA1-ZX702	ASMT-UWB1-ZAAH2	QSMT-UWC1-ZX3A2
ASMT-UWB1-NAAC2	ASMT-UWA1-ZX3B2	ASMT-UWB1-ZX302	QSMT-UWBB-ZX3Z2
ASMT-UWB1-NAAD2	ASMT-UWA1-ZX7B2	ASMT-UWB1-ZX312	QSMT-UWES-ZX6Z2
ASMT-UWB1-NAAF2	ASMT-UWA1-ZX6B2	ASMT-UWB1-ZX3A2	QSMT-UWT1-ZX3Z2
ASMT-UWB1-NAAH2	ASMT-UWB1-ZX702	ASMT-UWB1-ZX3B2	QSMT-UWCB-ZX3Z2
ASMT-UWB1-NX702	ASMT-UWB1-ZX7A2	ASMT-UWB1-ZX3C2	QSMT-UWCB-ZX3H2
ASMT-UWB1-NX7A2	ASMT-UWB1-ZX7B2	ASMT-UWB1-ZX3D2	QSMT-UWDM-ZX7D2
ASMT-UWB1-NX7B2	ASMT-UWB1-ZX7C2	ASMT-UWB1-ZX3E2	QSMT-UWAS-ZX7B2
ASMT-UWB1-NX7C2	ASMT-UWB1-ZX7D2	ASMT-UWB1-ZX3F2	QSMT-UWCV-ZX7Z2
ASMT-UWB1-NX7D2	ASMT-UWB1-ZX7E2	ASMT-UWB1-ZX3G2	QSMT-UWIB-ZX3F2
ASMT-UWB1-NX7E2	ASMT-UWB1-ZX7F2	ASMT-UWB1-ZX3H2	QSMT-UWOL-ZX7B2
ASMT-UWB1-NX7F2	ASMT-UWB2-ZX302	ASMT-UWB1-ZX3J2	QSMT-UWSB-ZX3B2
ASMT-UWB2-NW7F2	ASMT-UWB2-ZX3A2	QSMT-UWB1-NAAZ2	
ASMT-UWB2-NW7G2	ASMT-UWB2-ZX3B2	QSMT-UWHS-NX3Z2	

## Appendix 2

ASMT-SBB5-ZU3Q3	ASMT-UBB5-ZS7Q2	ASMT-SGB5-ZW7Q3	ASMT-UGB5-ZV7Q2
ASMT-SBB5-ZU3P3	ASMT-UBB5-ZS7P2	ASMT-SGB5-ZW7P3	ASMT-UGB5-ZV7P2
ASMT-SBB5-ZU3Y3	ASMT-UBB5-ZS7Y2	ASMT-SGB5-ZW7Y3	ASMT-UGB5-ZV7Y2
ASMT-SBB5-ZT703	ASMT-UBB5-ZT3Q2	ASMT-SGB5-ZX3Q3	QSMT-UBRC-ZP4PC
ASMT-SBB5-ZT7P3	ASMT-UBB5-ZT3P2	ASMT-SGB5-ZX3P3	
ASMT-SBB5-ZT7Y3	ASMT-UBB5-ZT3Y2	ASMT-SGB5-ZX3Y3	
ASMT-UBB5-ZS8Q2	ASMT-SGB5-ZW703	ASMT-UGB5-ZV702	

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.