

Product Change Notice

Issue Date: 1st February 2012

Change Type:

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

- 1) Introduction of an alternate manufacturing site for PLCC LED part numbers.
- 2) Introduction of an alternate LED die source for PLCC LED part numbers.

Parts Affected:

ASMT-QBBC-NAC0E	ASMT-QWBC-NHJSE	ASMT-QYBC-NGJCE	ASMT-QYBE-NGHAE	ASMT-UGB5-NV702
ASMT-QBBE-N0B0E	ASMT-QWBC-NJK0E	ASMT-QYBC-NGJEE	ASMT-SBB5-NT703	HSMM-A100-S00J1
ASMT-QGBE-NFH0E	ASMT-QWBC-NJKBE	ASMT-QYBC-NGJFE	ASMT-SGB5-NW503	HSMM-A100-U3YJ1
ASMT-QWBC-NHHQE	ASMT-QWBC-NJKDE	ASMT-QYBC-NGJKE	ASMT-SWB5-NW703	HSMM-A100-U4PJ1
ASMT-QWBC-NHJ0E	ASMT-QWBC-NJKHE	ASMT-QYBC-NHJ0E	ASMT-SWBM-NU803	HSMM-A101-R00J1
ASMT-QWBC-NHJAE	ASMT-QWBC-NJKKE	ASMT-QYBC-NHJAE	ASMT-SWBM-NU8Z3	HSMM-A160-S00J1
ASMT-QWBC-NHJBE	ASMT-QWBC-NJKKE	ASMT-QYBC-NHJBE	ASMT-SWBM-NV403	HSMN-A100-P00J1
ASMT-QWBC-NHJCE	ASMT-QWBC-NJKME	ASMT-QYBC-NHJDE	ASMT-SWBM-NV4M3	HSMN-A100-R00J1
ASMT-QWBC-NHJDE	ASMT-QWBC-NJKNE	ASMT-QYBC-NHJEE	ASMT-SWBM-NV803	HSMN-A100-R0YJ1
ASMT-QWBC-NHJFE	ASMT-QWBC-NJKRE	ASMT-QYBC-NHJFE	HSMM-A400-U4QM2	HSMN-A100-R4YJ1
ASMT-QWBC-NHJHE	ASMT-QWBC-NJKYE	ASMT-QYBC-NHJWE	HSMM-A400-U4YM2	HSMN-A100-S00J1
ASMT-QWBC-NHJKE	ASMT-QWBE-NFH0E	ASMT-QYBC-NHJYE	HSMN-A400-S4QM2	QSMM-A149-S00J1
ASMT-QWBC-NHJLE	ASMT-QWBE-NFHDE	ASMT-QYBC-NHJZE	HSMN-A400-S8PM2	QSMM-A193-T4YJ1
ASMT-QWBC-NHJME	ASMT-QYBC-NGHEE	ASMT-QYBC-NHKAE	HSMN-A400-S8QM2	QSMT-QWBL-NHJFE
ASMT-QWBC-NHJQE	ASMT-QYBC-NGJ0E	ASMT-QYBC-NHKEE	HSMW-A400-U00M2	
ASMT-QWBC-NHJRE	ASMT-QYBC-NGJAE	ASMT-QYBE-NEG0E	ASMT-UBB5-NS8Q2	

Description and Extent of Change:

1. Alternate manufacturing site

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

2. 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 for PLCC LEDs.

Reasons for Change:

1. Alternate manufacturing site

To ensure continuity of supply for part numbers.

2. Alternate LED die source

To ensure continuity of supply for part numbers.

Effect of Change on Fit, Form and Function

There is no effect on fit and function as per datasheet. Qualification and characterization have been conducted to ensure both current and alternate manufacturing site as well as LED die source are comparable. The current and alternate manufacturing site and LED die source for PLCC LED can be identified through the country of origin that indicated on the Mother Label and Baby Label. The country of origin on the mother label and baby label for alternate manufacturing site for PLCC LED will be from China.

Comparison of PLCC LED manufactured from current and alternate manufacturing sites as below:

Revision B :

	Current Manufacturing Site	Alternate Manufacturing Site
Package Lead frame Coating	External leads for PLCC2 are <u>Sn</u> plated	External leads for PLCC2 are silver plated
	External leads for PLCC4 remain no change	
Mother Label	<p>(1P)Item: HSMC-A160-Q00J1 (1T)Lot: Z103J0027203 LPN: UT10350220 (9D)MFG Date: 01-MAR-2010 (P)Customer Item: (V)Vendor ID: Dept ID: CMTLED</p> <p>AVAGO TECHNOLOGIES Standard Label LSG002 Meets Compliant Halogen Free at Max Temp 260 C MSL: 2b</p> <p>(Q)QTY: 2000 CAT: R1 BIN:</p> <p>(9D)Date Code: 1009 Made In: TAIWAN</p>	<p>(1P)Item: ASMT-UWB1-NX302 (1T)LOT: 107040041003 LPN: N110714012 (9D)MFG Date: 4-Jul-2011 (P)Customer Item: (V)Vendor ID: Dept ID: CMTLED</p> <p>AVAGO TECHNOLOGIES STANDARD LABEL LSG002 Meets Compliant Halogen Free at Max Temp 260 C MSL: 3</p> <p>(Q)QTY: 1000 CAT: X2 BIN: 2C VF-F06</p> <p>(9D)Date Code: 1128 Made In: China</p>
Baby Label	<p>(1P)PART#: HSMC-A160-Q00J1 (1T)LOT#: Z103J0027203 (9D)MFG Date: 01-MAR-2010 G/O TAIWAN (1T)TAPE DATE: 05-MAR-2010</p> <p>AVAGO TECHNOLOGIES BABY LABEL COS0018 V0.0</p> <p>(Q)QUANTITY: 2000 (9D)DATE CODE: D/C 1009 VF: CAT R1 BIN</p>	<p>(1P)PART# ASMT-UWB1-NX302 (1T)LOT#: 107040041003 (9D)MFG Date: 4-Jul-2011 C/O CHINA (1T)TAPE DATE: 14-Jul-2011</p> <p>AVAGO TECHNOLOGIES BABY LABEL COS0018 V0.0</p> <p>(Q)QUANTITY: 1000 (9D)DATE CODE: 1128 D/C 1128 VF F06 CAT X2 BIN 2C</p>

Effective Date of Change:

The shipment of alternate site and alternate LED die source PLCC2 and PLCC 4 will begin on 1st March 2012. Different site and die source can be shipped in the same shipment and this can be identified from the baby label on the reel and mother label on moisture barrier bag.

Qualification Data:

Test	Reference	Sample Size	Result
Temperature Cycling -55/100°C 15/5/15min	Avago Req	600	Pass 1000cyc
High Humidity Storage Life 85°C / 85%RH	Avago Req	336	pass 1000hrs
High Humidity Operating Life 85°C / 85%RH, 12mA	JESD22-A101	336	pass 1000hrs
High Temperature Operating Life 55°C , 20mA	JESD22-A108	336	pass 1000hrs
Room Temperature Operating Life 25°C , 30mA	Avago Req	336	pass 1000hrs
Temperature Humidity Power Cycle 25/65°C, 95%RH , 3 6 3 hrs, 8mA, 5 mins on/off	Avago Req	336	pass 100cyc

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.