

**PCN: V10-003-48475413-0B**

## Product Change Notice

**Issue Date: 5 November 2010**

### Change Type:

Standardization of Printed Circuit Board (PCB) for Taiwan made HSMxC190 and HSMxC191 chipled.

### Parts Affected:

HSMA-C190	HSMH-C192	QSMA-C198-000TW	QSME-C194
HSMA-C190-000TW	HSML-C190	QSMA-C199	QSME-C195
HSMA-C191	HSML-C190-000TW	QSMA-C19A	QSME-C198
HSMA-C191-000TW	HSML-C191	QSMA-C19B	QSME-C199
HSMC-C190	HSML-C191-000TW	QSMA-C19H	QSME-C19A
HSMC-C190-000TW	HSML-C191-PQ000	QSMA-C19P	QSME-C19D
HSMC-C191	HSMS-C190	QSMC-C184	QSME-C19P
HSMC-C191-000TW	HSMS-C190-000TW	QSMC-C186	QSMG-C187
HSMD-C190	HSMS-C191	QSMC-C192	QSMG-C193
HSMD-C190-000TW	HSMS-C191-000TW	QSMC-C196	QSMG-C194
HSMD-C191	HSMY-C190	QSMC-C198	QSMG-C195
HSMD-C191-000TW	HSMY-C190-000TW	QSMC-C198-000TW	QSMG-C196
HSME-C190	HSMY-C191	QSMC-C199	QSMG-C198
HSME-C191	HSMY-C191-000TW	QSMC-C199-000TW	QSMG-C199
HSME-C191-000TW	HSMY-C192	QSMC-C19B	QSMG-C19A
HSMG-C190	HSMZ-C190	QSMC-C19D	QSMG-C19G
HSMG-C190-000C1	HSMZ-C190-RT000	QSMC-C19F	QSMH-C122
HSMG-C190-000TW	HSMZ-C191	QSMC-C19P	QSMH-C187
HSMG-C191	QSMA-C184	QSMD-C187	QSMH-C194
HSMG-C191-000TW	QSMA-C185	QSMD-C193	QSMH-C198
HSMG-C191-LLV00	QSMA-C192	QSMD-C194	QSML-C187
HSMG-C192	QSMA-C194	QSME-C186	QSML-C19D
HSMH-C190	QSMA-C194-000TW	QSME-C188	QSMS-C189
HSMH-C190-000TW	QSMA-C195	QSME-C189	QSMS-C198
HSMH-C191	QSMA-C196	QSME-C193	QSMY-C198
HSMH-C191-000TW	QSMA-C198	QSME-C193-000TW	QSMZ-C199

### Description and Extent of Change:

The selected PCB source has been qualified and has met Avago's quality, reliability and functionality requirements. There is no difference in the outlook appearance; the slight difference is the internal circuit trace design.

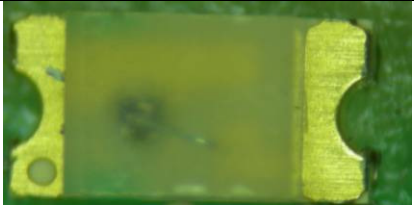

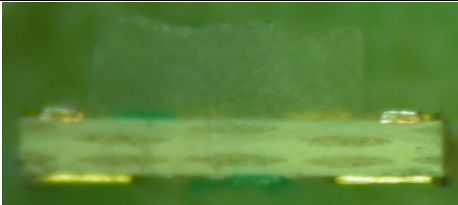


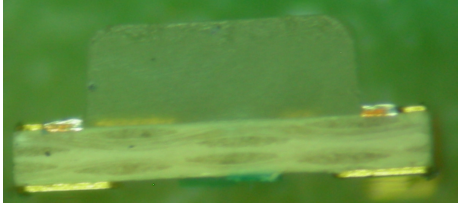
**Reasons for Change:**

- To standardize the PCB between InGaN, AlInGaP, GaP and AlGaAs dice type chipled
- To ensure supply continuity

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

There is no effect on fit and function as per datasheet. Qualification and characterization have been conducted to ensure both types of PCB are comparable.

Comparison of the physical appearance between existing and alternate PCB source is as shown below:

	Top View	Bottom View	Side View
New PCB			
Existing PCB			

**Effective Date of Change:**

The changes will be implemented starting 21<sup>st</sup> February 2011. There may be mixed shipments between current and new PCB after the effective date of change.

**Qualification Data:**

Qualification data has been generated and approved. It will be available upon request.

Please contact your Avago field sales engineer for further details or support requirements.

Thank you for your continuous support.

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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 90 days.