



**PCN: V13-09-FBAR-A1**

## Product Change Notice

Avago Technologies Company Confidential

Issue Date: 31052013

### **Change Type:**

1. Assembly and Test related: Qualify alternate contract manufacturer.
2. PCB related: Qualified alternate PCB supplier

### **Parts Affected:**

Please refer to Appendix Below.

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

Avago Technologies Malaysia is qualifying alternate sources for the above 2 changes for the products listed in Appendix A. With this change, the affected products will still be manufactured according to the same electrical and physical dimension specifications as per product datasheets. Avago Technologies will ensure that appropriate process controls and monitors are in place at the alternate contract manufacturer to continue providing customers with high quality products. The alternate contract manufacturer will be given proper quality training and certified to Avago Technologies' standards of manufacturing process operations.

### **Reasons for Change:**

This is part of Avago's effort to improve supportability and customers' satisfaction.

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

The product electrical performance specification will remain the same. Appropriate electrical characterization and reliability qualification has been performed and meet the existing electrical performance and reliability.

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

The availability date for samples, characterization report and product shipments from new alternate source are shown in the table below Appendix.

Timing of shipment of the new part may vary by part number depending on customer demand and inventory levels.

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

#### **Qualification Data:**

- i. ACMD-7410, ACFM-7110, ACPF-7025, ACPF-7024
- ii. ACMD-6107 (Pending – Jul'13) All devices (except solderability test) are subjected to MSL3 Preconditioning (JESD22-A113F) prior to each stress test condition.

Refer to Appendix table below.

Qualification data has been generated and approved.

Other Attachments
None

**Appendix**

## Effective Date of Change

Part Number	Characterization Reports & Samples Availability	Target Shipment
ACMD-7410	Available	Aug 1 <sup>st</sup> 2013
ACFM-7110	Available	Aug 1 <sup>st</sup> 2013
ACPF-7025	Available	Aug 1 <sup>st</sup> 2013
ACMD-6107	July 1 <sup>st</sup> 2013	Nov 1 <sup>st</sup> 2013
ACPF-7024	July 1 <sup>st</sup> 2013	Nov 1 <sup>st</sup> 2013

## Qualification Data

Stress Test	Stress Condition	Duration	Number of Devices (each Qual Vehicle)	Result
MSL3 verification	24hrs 125°C HTS + 40hrs 60C/60%RH + 3X IR Reflow, 260C max (J-STD-020)	3X	75	PASS
TMCL	-55°C/+125°C, 15 min dwell, 10 min transfer time (JESD22-A104)	500X	150	PASS
WHTS	85C/85%RH (JESD22-A113)	380hrs	150	PASS
HTSL	125C (JESD22-A103)	500hrs	150	PASS
ESD	MM (JESD22-A115)	100V	45	PASS
	HBM (JESD22-A114)	250V <sup>1</sup> 500V <sup>2,3</sup>	45	PASS
Solderability Test	Steam aging 1 hr, Pb Free solder, 245C, 5 sec (JESD22-B102)	1X	66	PASS

Affected Part List Table 1

## Appendix

Part Numbers	Alternate Assembly & Test	Alternate PCB
ACMD-4102-BLK/HP1/SG1/TC1/TR1	V	
ACMD-4104-BLK/TR1	V	
ACMD-4202-BLK/KC1/SG1/TR1	V	
ACMD-4402-BLK/SG1/TR1	V	
ACMD-4502-BLK/SG1/SG2/TR1	V	
ACMD-4602-BLK/TR1	V	
ACMD-6003-BLK/SG1/TR1	V	
ACMD-6007-BLK/SG1/TR1	V	
ACMD-6025-BLK/KC1/QC1/SG1/TR1	V	
ACMD-6102-BLK/TR1/SG1	V	
ACMD-6103-BLK/TR1/SG1	V	
ACMD-6107-BLK/SG1/TR1	V	
ACMD-7402-BLK/CO1/QC1/SG1/SG1G	V	
ACMD-7402-SG2/SPW1/SR1/TR1/TR1G/VRZ	V	
ACMD-7403-BLK/SG1/TR1	V	
ACMD-7404-BLK/TR1	V	
ACMD-7405-TR1/TS1/BLK	V	
ACMD-7406-TR1	V	
ACMD-7407-BLK/SG1/TR1	V	
ACMD-7408-TR1	V	

Affected Part List Table 2

Part Numbers	Alternate Assembly & Test	Alternate PCB
ACMD-7409- BLK/QC1/SG1/SG1G/SG2/SPW1/SR1/TR1/TR1G/VRZ	V	
ACMD-7410-BLK/HP1/QC1/SC1/SG1/SG2/TR1	V	
ACMD-7411-BLK/TR1	V	
ACMD-7606-BLK/TR1	V	
ACMD-7609-BLK/QC1/SE1/SG1/TR1	V	
ACMD-7610-BLK/QC1/TR1	V	
ACMD-7612-BLKG/HW1/SG1/TR1/TR1G	V	
ACMD-7614-BLK/DC1/QC1/SG1/TR1	V	
ACMD-7617-BLK/TR1	V	
ACMD-9001-TR1	V	
QCMD-6003-WS1/WSB	V	
QCMD-7610-WS1/WSB	V	
QCMD-7614-WS1/WSB	V	
QCMD-9003-TR1	V	
QCMD-9410-TR1	V	

Affected Part List Table 3

## Appendix

Part Numbers	Alternate Assembly & Test	Alternate PCB
ACPF-7005-BLK/HP1/KC1/SG1/TR1	V	
ACPF-7024-BLK/SG1/TR1	V	V
ACPF-7025-BLK/SG1/TR1	V	
ACPF-7041-BLK/SG1/TR1	V	
ACPF-7124-BLK/SG1/TR1	V	
ACPF-7901-BLK/TR1	V	
ACPF-8025-BLK/SG1/TR1	V	
ACPF-8125-BLK/QC1/TR1	V	
ACPF-8040-BLK/TR1	V	
ACFM-7103-BLK/CO1/HW1/LR1/SG1/SG2/TR1	V	
ACFM-7107-BLK/SG1/SG2/TR1	V	
ACFM-7109-BLK/SG2/TR1	V	
ACFM-7110-BLK/SG2/TR1	V	
ACFM-7325-BLK/HP1/HW1/KC1/RM1/SG1/SG2/TR1	V	
ACFM-7425-BLK/SG1/TR1	V	
ACFM-9025-BLK/KC1/SG1/TR1	V	

None

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.