

PCN: V16-144-BASE-A

Product Change Notice

Issue Date: 16-November-2016

Change Type:

Assembly related: Qualify alternate assembly source.

Parts Affected:

See Appendix A

Description and Extent of Change:

To qualify an alternate assembly contract manufacturer for the part numbers listed.

Reasons for Change:

This is part of Broadcom's strategy to secure and assurance of supply to meet market demands.

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. Electrical characterization and reliability qualification was performed on representative products to ensure normal parametric distribution, consistent electrical performance and reliability.

There will be some changes in the product bottom pad dimensions with the alternate source. Please review page 2, 3 and 4 for details. There will be no impact to stencil and package footprint for the PCB.

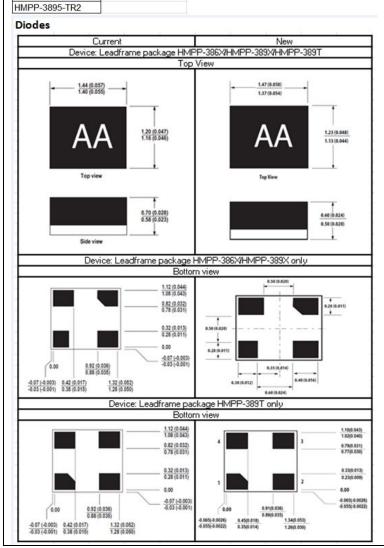
Effective Date of Change:

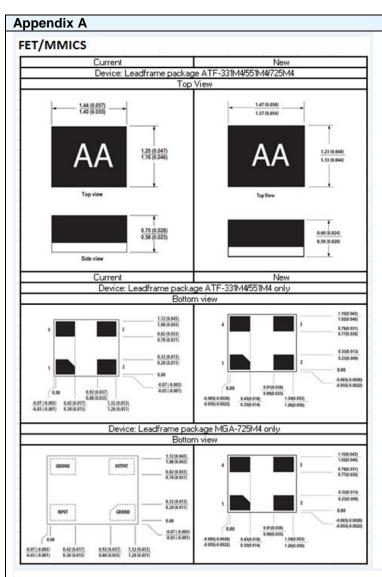
Product shipments using this change will begin in January 2017 but initiation of the change may be spread over approximately 3 months. Timing for shipment of the changed parts will vary by part number depending on customer demands and inventory level.

Qualification Data:

Reliability Qualification data has been completed. Please refer to Appendix A for the results. Qualification data has been generated and approved.

Appendix A	
ATF-331M4-BLK	HMPP-389T-BLK
ATF-331M4-TR1	HMPP-389T-TR1
ATF-331M4-TR2	HMPP-389T-TR2
ATF-541M4-BLK	HMPS-2820-BLK
ATF-541M4-TR1	HMPS-2820-TR1
ATF-541M4-TR2	HMPS-2820-TR2
ATF-551M4-BLK	HMPS-2822-BLK
ATF-551M4-TR1	HMPS-2822-TR1
ATF-551M4-TR2	HMPS-2822-TR2
HMPP-3860-BLK	HMPS-2825-BLK
HMPP-3860-TR1	HMPS-2825-SG1G
HMPP-3860-TR2	HMPS-2825-TR1
HMPP-3862-BLK	HMPS-2825-TR1SE
HMPP-3862-TR1	HMPS-2825-TR2
HMPP-3862-TR2	MGA-725M4-BLK
HMPP-3865-BLK	MGA-725M4-TR1
HMPP-3865-TR1	MGA-725M4-TR2
HMPP-3865-TR2	QFET-3002-BLK
HMPP-3890-BLK	QFET-3002-TR1
HMPP-3890-TR1	QFET-3005-BLK
HMPP-3890-TR2	QFET-3005-TR1
HMPP-3892-BLK	QFET-3009-BLK
HMPP-3892-TR1	QFET-3009-TR1
HMPP-3892-TR2	QFET-3010-BLK
HMPP-3895-BLK	QFET-3010-TR1
HMPP-3895-TR1	
HMPP_3805_TP2	





Stress Test	Stress Condition	Duration	Number of Devices (each <u>qual</u> vehicle)	Result
MSL1 verification	85°C/85%RH 168hrs + 3x JEDEC Pb Free reflow 260C	3X reflow	100pcs	PASSED
TMCL	-65/150C, 10 minutes dwell time	500X	100pcs	PASSED
ESD MM	MM	Diode(40V) FET(25V)	200pcs	PASSED
ESD HBM	НВМ	Diode(600V), FET(200V)	200pcs	PASSED
Solderability	Steam age 8 hour, lead free 245C, 5 sec Dip	2X Dip	88pcs	PASSED

Qual Vehicle Diode: HMPS-2825 FET: ATF-551M4

All samples are subjected to MSL1 preconditioning prior to Reliability test except ESD & solderability test

The changes to these Avago Technologies, a Broadcom Limited Company, parts have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer otification A-5962-6052-80.

Please contact your Broadcom Limited 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.