

Product Change Notice

Issue Date: April 24, 2017**Change Type:**

- Assembly site addition (Amkor China).

Parts Affected:

Device	Package Size	Package	Pin Count
B50210EB1KMLG	7X7	QFN	48
B50212EB1IMLG	7X7	QFN	48
B50212EB1KMLG	7X7	QFN	48
BCM54210EB1IMLG	7X7	QFN	48
BCM54210EB0KMLGTE	7X7	QFN	48
BCM54210EB1KMLG	7X7	QFN	48
BCM54210EB1KMLGT	7X7	QFN	48
BCM54213PEB1KMLG	6X6	QFN	36
BCM54214EB1KMLG	10X10	QFN	68
BCM54216EB1KMLG	10X10	QFN	68

Description and Extent of Change:

- Add Amkor China as an additional assembly supplier for the above devices.
- The extent of the change is minimal. Amkor China is in mass production for the above package technology

Reasons for Change:

- Manufacturing flexibility

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

- No impact on form, fit and function
- The device specification will remain the same, which will ensure product electrical performance remains the same.

Effective Date of Change:

- Product shipments using this change will begin on or around June 24 2017, but initiation of the change may be spread over approximately 6 months. Timing of shipment of the changed part will vary by part number depending on qualification completion, customer demand, and inventory levels.

Qualification Data:
Amkor Internal Qual Report # QU376837

Package Type : QFN
 Package Size : 7mm x 7mm
 Lead Count : 48
 Leadframe Type : Matte Tin

Stress Test	Condition	Read points Cycles/ Hrs.	Lot #	Sample Size	Requirements	Results
Precondition	MSL2AA		1	231	0 failures	0/231
			2	231		0/231
	JESD22-A113E		3	231		0/231
Temp Cycle	-65° C / 150° C	500 cycles	1	77	0 failures	0/77
	JEDEC Std. 22-A104-D Cond. C		2	77		0/77
	(Precon parts)		3	77		0/77
HAST	130° C/85%RH/	96 hrs	1	77	0 failures	0/77
	JEDEC Std 22-A102-C		2	77		0/77
	(Precon parts)		3	77		0/77
HTSL	TA=150° C	1000 hrs.	1	77	0 failures	0/77
	JEDEC Std. 22-A103-C		2	77		0/77
	(Precon parts)		3	77		0/77

Amkor Internal Qual Report # QU376816

Package Type : QFN
 Package Size : 7mm x 7mm
 Lead Count : 48
 Leadframe Type : PPF

Stress Test	Condition	Read points Cycles/ Hrs.	Lot #	Sample Size	Requirements	Results
Precondition	MSL2AA		1	231	0 failures	0/231
			2	231		0/231
	JESD22-A113E		3	231		0/231
Temp Cycle	-65° C / 150° C	500 cycles	1	77	0 failures	0/77
	JEDEC Std. 22-A104-D Cond. C		2	77		0/77
	(Precon parts)		3	77		0/77
HAST	130° C/85%RH/	96 hrs	1	77	0 failures	0/77
	JEDEC Std 22-A102-C		2	77		0/77
	(Precon parts)		3	77		0/77
HTSL	TA=150° C	1000 hrs.	1	77	0 failures	0/77
	JEDEC Std. 22-A103-C		2	77		0/77
	(Precon parts)		3	77		0/77



Amkor Customer Qual Report # QU396389

Package Type : QFN
 Package Size : 6mm x 6mm
 Lead Count : 48
 Leadframe Type : PPF

Stress Test	Condition	Read points Cycles / Hrs.	Lot #	Sample Size	Requirements	Results
Precondition	MSL3 JESD22-A113E		1	120	0 failures	0/120
			2	120		0/120
			3	135		0/135
Temp Cycle	-55° C / 125° C JEDEC Std. 22-A104-D Cond.B (Precon parts)	500 cycles	1	40	0 failures	0/40
			2	40		0/40
			3	45		0/45
UBPC	121C/100%/2atm JEDEC Std 22-A102-C (Precon parts)	96 hrs	1	40	0 failures	0/40
			2	40		0/40
			3	45		0/45
HTSL	TA=150° C JEDEC Std. 22-A103-C (without Precon)	1000hrs	1	40	0 failures	0/40
			2	40		0/40
			3	45		0/45
HAST	130° C/85%RH JEDEC Std 22-A102-C (Precon parts)	96 hrs	1	40	0 failures	0/40
			2	40		0/40
			3	45		0/45

Amkor Customer Qual Report # QU399933

Package Type : QFN
 Package Size : 10mm x 10mm
 Lead Count : 68
 Leadframe Type : Matte Tin

Stress Test	Condition	Read points Cycles / Hrs.	Lot #	Sample Size	Requirements	Results
Precondition	MSL3 JESD22-A113E		1	247	0 failures	0/247
			2	247		0/247
Temp Cycle	-55° C / 120° C JEDEC Std. 22-A104-C Cond. B	1000 cycles	1	77	0 failures	0/77
			2	77		0/77
UBPC	121° C/100%RH/29.7Psia JEDEC Std 22-A102-C	168 hrs	1	77	0 failures	0/77
			2	77		0/77
HTSL	TA=150° C JEDEC Std. 22-A103-C	1000hrs	1	77	0 failures	0/77
			2	77		0/77

Please contact your Broadcom Limited field sales engineer or Contact Center for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.