

Product Change Notice

Issue Date: May 9, 2017

Change Type:

- Assembly site addition (Amkor China).

Parts Affected:

Device	Package Size	Package	Pin Count
BCM65040IMLG	4X4	QFN	24
BCM65040IMLGT	4X4	QFN	24

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 has internally qualified the package type and is in volume 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

Effective Date of Change:

- Product shipments using this change will begin week of June 24, 2017

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.