



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

23 Jun 2008

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #IPC�16126

TITLE: Addition of PLCC20 / 28 package assembly capabilities at Amkor Technology Philippines (P1) Inc. package assembly site

PROPOSED FIRST SHIP DATE: 23 Oct 2008

AFFECTED CHANGE CATEGORY: High Frequency Products

AFFECTED PRODUCT DIVISION: Standard Products, Computing Products Group

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Lance James<lance.james@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPC�)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPC� is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPC�).

This IPC� notification will be followed by a Final Product/Process Change Notification (FPC�) at least 90 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

ON Semiconductor is pleased to announce the qualification of Amkor Technology Philippines (P1) Inc. located in Cupang Muntinlupa City as our future new source for assembly of all PLCC20 and PLCC28 devices. Our final test location will remain in ON Semiconductor Philippines, Inc (OSPI) in Carmona, Philippines.

There is a minor dimension change related to the package lead width (see table below). The package case outline documentation will be updated at the time of qualification. ON Semiconductor will update the package drawing for this one change.

	ON SEMI POD				AMKOR POD (00060/14)				REMARKS
	SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX	
leadwidth (external)	F	0.013	-	0.019	-	0.013	-	0.021	not compliant with current dimensions for max specs



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QUALIFICATION PLAN:

Amkor_PLCC_QualPlan_15May2008

#	Test	Qual Point	Test Conditions	End Point Requirements	Sample Size	# of Lots	Total Units	Comments
1	Electrical Test		ON Product Specification	See Below	All Devices			
2	Lot Prep				All Devices			
3	HTOL	1008hrs	Ta=125C	Test @ Room	80	2	160	One of the lot is control.
4	HTSL	1000 hrs	Ta=150C	Test @ Room	80	3	240	One of the lot is control
5	PC	MSL1 and MSL 3						One of the lot is control
6	HAST-PC	96 hrs	130°C/85% RH	Test @ Room	80	3	240	One of the lot is control
7	AC-PC	96 hrs	TA = +121°C, RH = 100%, PSIG = 15	Test @ Room	80	3	240	One of the lot is control
8	TC-PC	500 cycles	-65°C to +150°C for 100 cycles	Test @ Room	80	3	240	One of the lot is control
9	SAT-PC				10	3	30	One of the lot is control
10	WBS	AEC-Q100-001	Wire Bond Shear Test	Cpk >1.33		5 parts	3	30 Bonds Minimum
11	WBP	AEC-Mil-Std-883 Meth 2011	Wire Bond Pull Test	Cpk >1.33		5 parts	3	30 Bonds Minimum

Note: Control lot will be run at ON Semiconductor, OPSI Philippines



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AFFECTED DEVICE LIST:

PART

- MC100E016FNG
- MC100E016FNR2G
- MC100E101FNG
- MC100E101FNR2G
- MC100E104FNG
- MC100E104FNR2G
- MC100E107FNG
- MC100E107FNR2G
- MC100E111FNG
- MC100E111FNR2G
- MC100E112FNG
- MC100E112FNR2G
- MC100E116FNG
- MC100E116FNR2G
- MC100E131FNG
- MC100E131FNR2G
- MC100E136FNG
- MC100E136FNR2G
- MC100E137FNG
- MC100E137FNR2G
- MC100E141FNG
- MC100E141FNR2G
- MC100E142FNG
- MC100E142FNR2G
- MC100E143FNG
- MC100E143FNR2G
- MC100E150FNG
- MC100E150FNR2G
- MC100E151FNG
- MC100E151FNR2G
- MC100E157FNG
- MC100E157FNR2G
- MC100E158FNG
- MC100E158FNR2G
- MC100E163FNG
- MC100E163FNR2G
- MC100E164FNG
- MC100E164FNR2G
- MC100E171FNG
- MC100E171FNR2G
- MC100E175FNG
- MC100E175FNR2G
- MC100E195FNG
- MC100E195FNR2G
- MC100E196FNG
- MC100E196FNR2G
- MC100E210FNG
- MC100E210FNR2G
- MC100E211FNG
- MC100E211FNR2G
- MC100E241FNG
- MC100E241FNR2G



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MC100E310FNG
MC100E310FNR2G
MC100E404FNG
MC100E404FNR2G
MC100E416FNG
MC100E416FNR2G
MC100E431FNG
MC100E431FNR2G
MC100E445FNG
MC100E445FNR2G
MC100E446FNG
MC100E446FNR2G
MC100E451FNG
MC100E451FNR2G
MC100E452FNG
MC100E452FNR2G
MC100E457FNG
MC100E457FNR2G
MC100H600FNG
MC100H600FNR2G
MC100H601FNG
MC100H601FNR2G
MC100H602FNG
MC100H602FNR2G
MC100H603FNG
MC100H603FNR2G
MC100H604FNG
MC100H604FNR2G
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MC100H605FNR2G
MC100H606FNG
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MC100H640FNR2G
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MC100H641FNR2G
MC100H642FNG
MC100H642FNR2G
MC100H643FNG
MC100H643FNR2G
MC100H646FNG
MC100H646FNR2G
MC100H680FNG
MC100LVE111FNG
MC100LVE111FNR2G
MC100LVE210FNG
MC100LVE210FNR2G
MC100LVE310FNG
MC100LVE310FNR2G
MC10E016FNG
MC10E016FNR2G
MC10E101FNG
MC10E101FNR2G
MC10E104FNG
MC10E104FNR2G



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MC10E107FNG
MC10E107FNR2G
MC10E111FNG
MC10E111FNR2G
MC10E112FNG
MC10E112FNR2G
MC10E116FNG
MC10E116FNR2G
MC10E122FNG
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MC10E131FNG
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MC10E136FNG
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MC10E1651FNG
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MC10E1652FNG
MC10E1652FNR2G
MC10E166FNG
MC10E166FNR2G
MC10E167FNG
MC10E167FNR2G
MC10E171FNG
MC10E171FNR2G
MC10E175FNG
MC10E175FNR2G
MC10E195FNG
MC10E195FNR2G
MC10E196FNG
MC10E196FNR2G



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MC10E211FNG
MC10E211FNR2G
MC10E404FNG
MC10E404FNR2G
MC10E411FNG
MC10E411FNR2G
MC10E416FNG
MC10E416FNR2G
MC10E431FNG
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MC10E445FNG
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MC10H109FNG
MC10H109FNR2G
MC10H113FNG
MC10H113FNR2G
MC10H115FNG
MC10H115FNR2G
MC10H116FNG
MC10H116FNR2G
MC10H117FNG
MC10H117FNR2G
MC10H121FNG
MC10H121FNR2G
MC10H123FNG
MC10H123FNR2G
MC10H124FNG
MC10H124FNR2G
MC10H125FNG
MC10H125FNR2G
MC10H130FNG
MC10H130FNR2G



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MC10H131FNG
MC10H131FNR2G
MC10H135FNG
MC10H135FNR2G
MC10H136FNG
MC10H136FNR2G
MC10H141FNG
MC10H141FNR2G
MC10H158FNG
MC10H158FNR2G
MC10H159FNG
MC10H159FNR2G
MC10H160FNG
MC10H161FNG
MC10H161FNR2G
MC10H162FNG
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MC10H209FNG
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MC10H210FNR2G
MC10H211FNG
MC10H211FNR2G
MC10H330FNG
MC10H330FNR2G
MC10H332FNG
MC10H332FNR2G
MC10H334FNG
MC10H334FNR2G
MC10H350FNG
MC10H350FNR2G
MC10H351FNG
MC10H351FNR2G
MC10H352FNG



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MC10H352FNR2G
MC10H424FNG
MC10H424FNR2G
MC10H600FNG
MC10H600FNR2G
MC10H601FNG
MC10H601FNR2G
MC10H602FNG
MC10H602FNR2G
MC10H603FNG
MC10H603FNR2G
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MC10H680FNR2G
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NBC12429AFNR2G
NBC12429FNG
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NBC12430AFNG
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NBC12430FNG
NBC12430FNR2G
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NBC12439AFNR2G
NBC12439FNG
NBC12439FNR2G
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SC64046BFNG
SC64046BFNR2G
SC64046FNG
SC64046FNR2G
VMC10E111FNG