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# **PRODUCT CHANGE NOTICE**

**Alternate Manufacturing Site  
for Assembly of the Listed  
Intersil PLCC Packaged  
Products**

**Refer to:  
PCN12087**

**Date: November 7, 2012**

November 7, 2012

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Site for Assembly of the Listed Intersil PLCC Packaged Products – Amkor Technology, Philippines (ATP)**

This notice is to inform you that Intersil will begin using the Amkor Technology (ATP) facility in the Philippines as an alternate site for assembly of the listed PLCC (Plastic Leaded Chip Carrier) packaged products. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer's delivery requirements. The product and site-specific qualification activities are in progress and expected to complete during Q1 CY2013.

The Amkor Technology (ATP) facility is ISO 9001:2008, TS 16949:2009, and ISO 14001:2004 certified. The ATP facility is qualified as a supplier to Intersil for performing assembly of packaged products, including the PLCC package style. There will be no change in the package outline drawing (POD), bond wire (diameter or material), die attach, or moisture sensitivity level (MSL) for the listed products. The material set combinations for assembly and other key items are listed in the table below.

Key Items	ANST Current	ATP NEW (Alternate)
Mold Compound	Sumitomo G600 / G700	Sumitomo G600
Die Attach	A8361J	A8361J
Bond Wire - Gold (Au)	1.2 mil	1.2 mil
Lead Frame Material	C151	C151 / C194
Moisture Sensitivity Level	3 or 4	3 or 4
Device Marking - Site Code	V	L

The assembly qualification plan is designed using JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function, or interchangeability of the product. A summary of the qualification plan is included for reference. The qualification results will be available for review upon completion by request. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, shipment, etc.) will continue to be processed to previously established conditions and systems.

Product affected by this change is identifiable via Intersil's internal traceability system. In addition, product assembled at ATP may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at ATP with gold bond wire is "L".

Intersil will take all necessary actions to conform to agreed upon customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product assembled at either the current or the newly qualified sites beginning *ninety* days from the date of this notification or earlier with approval.

If you have concerns with this change notice, Intersil must hear from you promptly. Please contact the nearest Intersil Sales Office or call the Intersil Corporate line at 1-888-468-3774, in the United States, or 1-321-724-7143 outside of the United States.

Regards,



Jon Brewster  
Intersil Corporation

PCN12087

CC: J. Touvell D. Decrosta D. Foster S. Nadarajah F. Tsng S. Ang B. Lee N. Anantharajah

## PCN12087 – ATP Reliability Qualification Summary

Stress / Conditions	Duration	CS82C54Z 28I PLCC SG600, A8361J, 1.2 AU wire	CD22M3494MQAZ 44L PLCC SG600, A8361J, 1.2 AU wire	CS82C52Z 28L PLCC SG600, A8361J, 1.2 AU wire
Temperature Humidity Bias +85C / 85% RH	1000 Hours	N = 78 Acc = 0	NA	NA
High Temperature Storage T <sub>A</sub> = +150C	1000 Hours	N = 78 Acc = 0	N = 78 Acc = 0	N = 78 Acc = 0
Unbiased HAST +130C / 85% RH	96 Hours	N = 78 Acc = 0	N = 78 Acc = 0	N = 78 Acc = 0
Moisture Sensitivity Classification		N = 22 Acc = 0 L3 PBFREE	N = 22 Acc = 0 L3 PBFREE	N = 22 Acc = 0 L3 PBFREE
Temp Cycle +150C / -65C	500 Cycles	N = 78 Acc = 0	N = 78 Acc = 0	N = 78 Acc = 0

## PCN12087 – PLCC Products Affected

CD22M3494MQAZ	HC55121IMZ	HI4P0546-5Z	X28HC256JIZ-12T1
CD22M3494MQAZ96	HC55130IMZ	HI4P0547-5Z	X28HC256JIZ-15
CD22M3494MQZ	HC55140IMZ	HI4P0549-5Z	X28HC256JIZ-15T1
CD22M3494MQZ96	HC55142IMZ	IMS82C55AZ	X28HC256JIZ-90
CD22M3494SQZ	HC55142IMZ96	IMS82C55AZ96	X28HC256JIZ-90T1
CMS82C55AZ	HC55150CMZ	IS82C50A-5Z	X28HC256JZ-12
CMS82C55AZ96	HC5515CMZ	IS82C52Z	X28HC256JZ-12T1
CS82C37AZ	HC55183ECMZ	IS82C52Z96	X28HC256JZ-15
CS82C50A-5Z	HC55183ECMZ96	IS82C54-10Z	X28HC256JZ-15T1
CS82C50A-5Z96	HC55184ECMZ	IS82C54-10Z96	X28HC256JZ-90
CS82C52Z	HC55184ECMZ96	IS82C54Z	X28HC256JZ-90T1
CS82C52Z96	HC55184ECMZ96R4749	IS82C54Z96	X28HC64JIZ-12
CS82C54-10Z	HC55184ECMZR4749	IS82C55A-5Z	X28HC64JIZ-12T1
CS82C54-10Z96	HC55185AIMZ	IS82C55A-5Z96	X28HC64JIZ-70
CS82C54-10Z96S2705	HC55185AIMZ96	IS82C55AZ	X28HC64JIZ-70T1
CS82C54-12Z	HC55185AIMZ96S2705	IS82C55AZ96	X28HC64JIZ-90
CS82C54-12Z96	HC55185BIMZ	IS82C59A-12Z	X28HC64JIZ-90T1
CS82C54Z	HC55185BIMZ96	IS82C59A-12Z96	X28HC64JZ-12
CS82C54Z96	HC55185CIMZ	IS82C59AZ	X28HC64JZ-12T1
CS82C54Z96S2463	HC55185CIMZ96	IS82C59AZX96	X28HC64JZ-70
CS82C55A-5Z	HC55185DIMZ	ISL5585AIMZ	X28HC64JZ-70T1
CS82C55A-5Z96	HC55185DIMZ96	ISL5585AIMZ-T	
CS82C55AZ	HC55185ECMZ	ISL5585BIMZ	
CS82C55AZ96	HC55185ECMZ96	ISL5585BIMZ-T	
CS82C55AZ96S2705	HC55185ECMZ96R4854	ISL5585CIMZ	
CS82C59A-12Z	HC55185ECMZR4854	ISL5585CIMZ-T	
CS82C59A-12Z96	HC55185FCMZ	ISL5585DIMZ	
CS82C59AZ	HC55185FCMZ96	ISL5585DIMZ-T	
CS82C59AZ96	HC55185GCMZ	ISL5585ECMZ	
CS82C84AZ	HC55185GIMZ	ISL5585ECMZ-T	
CS82C84AZ96	HC5549CMZ	ISL5585FCMZ	
HA456CMZ	HI4P0201-5Z	ISL5585FCMZ-T	
HA4P5002-5Z	HI4P0506-5Z	ISL5585GCMZ	
HC4P5504BZR4741-104	HI4P0509-5Z	ISL5585GCMZ-T	
HC55120CMZ	HI4P0509-5Z96	X28HC256JIZ-12	