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# **PRODUCT CHANGE NOTICE**

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

**Refer to:  
PCN12068**

**Date: September 7, 2012**

September 7, 2012

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Site for Assembly of the Listed Intersil SOIC Packaged Products** – *Advanced Semiconductor Engineering - Chung-Li, Taiwan (ASECL)*

This notice is to inform you that Intersil will begin using the Advanced Semiconductor Engineering (ASECL) facility as alternate site for assembly of the listed SOIC (Small Outline Integrated Circuit) packaged products. Products manufactured at the ASECL facility will be assembled using copper bond wire as an alternate to the gold wire currently used today. The advantages of copper bond wire include improved electrical conductivity of the wire, slower intermetallic growth, reduced wire sweep, and equivalent reliability performance. 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 Q4 CY2012.

The Advanced Semiconductor Engineering (ASECL) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and qualified as a supplier to Intersil for assembly of packaged products with both copper and gold bond wire material. There will be no change in the mold compound series, die attach, lead frame material, or package outline drawing (POD). Products assembled with copper bond wire are classified as moisture sensitivity level three (MSL 3 at 260 °C per J-STD-020). The qualified material set combinations for assembly and other key items are as follows:

Key Items	ANST/CAM Current	ASECL New (Alternate)
Mold Compound	Sumitomo EME-G600	Sumitomo EME-G600F
Die Attach	Ablebond 8290	Ablebond 8290
Bond Wire	1.0, 1.2, or 1.3mil Gold (Au)	1.2 mil Copper (Cu)
Moisture Sensitivity Level	1, 2, or 3	3
Device Marking - Site Code	V or G	W

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 ASECL may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at ASECL with copper bond wire is "W".

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 and packed in accordance with moisture sensitivity level three (MSL 3) requirements beginning *ninety* days from the date of this notification or upon depletion of existing material.

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*

Jon Brewster  
Intersil Corporation

PCN12068

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

## PCN12068 – ASECL Reliability Qualification Summary

Stress / Conditions	Duration	ISL3179EIBZ-T 8 lead SOIC	ISL32173EFBZ-T 16 lead SOIC
Biased HAST +130C / 85% RH	96 Hours	N =78 Acc = 0	NA
High Temperature Storage T <sub>A</sub> = +150C	1000 Hours	N =78 Acc = 0	N =78 Acc = 0
Unbiased HAST +130C / 85% RH	96 Hours	N =78 Acc = 0	N =78 Acc = 0
MSL L3 Pb Free		N =44 Acc = 0	N =44 Acc = 0
Temp Cycle +150C / -65C	500 Cycles	N =234 Acc = 0	N =234 Acc = 0

## PCN12068 – Products Affected

ISL3150EIBZ	ISL3179EIBZ-T	ISL4485EIBZ	ISL6549IBZ
ISL3150EIBZ-T	ISL3179EIBZ-T7A	ISL4485EIBZ-T	ISL6549IBZ-T
ISL3150EIBZ-T7A	ISL3180EIBZ	ISL4486IBZ	ISL6594ACBZ
ISL3153EIBZ	ISL3180EIBZ-T	ISL4486IBZ-T	ISL6594ACBZ-T
ISL3153EIBZ-T	ISL32172EFBZ	ISL4489EIBZ	ISL6594ACBZ-TS2709
ISL3153EIBZ-T7A	ISL32172EFBZ-T	ISL4489EIBZ-T	ISL6594BCBZ
ISL3155EIBZ	ISL32172EIBZ	ISL4491EIBZ	ISL6594BCBZ-T
ISL3155EIBZ-T	ISL32172EIBZ-T	ISL4491EIBZ-T	ISL6594DCBZ
ISL3155EIBZ-T7A	ISL32173EFBZ	ISL485EIBZ	ISL6594DCBZ-T
ISL3156EIBZ	ISL32173EFBZ-T	ISL485EIBZ-T	ISL6596CBZ
ISL3156EIBZ-T	ISL32173EIBZ	ISL6207CBZ	ISL6596CBZ-T
ISL3156EIBZ-T7A	ISL32173EIBZ-T	ISL6207CBZ-T	ISL6596IBZ
ISL3158AEMBZ	ISL32174EFBZ	ISL6207HBZ	ISL6596IBZ-T
ISL3158AEMBZ-T	ISL32174EFBZ-T	ISL6207HBZ-T	ISL6605CBZ
ISL3158AEMBZ-T7A	ISL32174EIBZ	ISL6208ACBZ	ISL6605CBZA
ISL3158EIBZ	ISL32174EIBZ-T	ISL6208ACBZ-T	ISL6605CBZA-T
ISL3158EIBZ-T	ISL32175EFBZ	ISL6208ACBZ-TS2705	ISL6605CBZA-TS2490
ISL3158EIBZ-T7A	ISL32175EFBZ-T	ISL6208CBZ	ISL6605CBZA-TS2568
ISL3159EFBZ	ISL32175EIBZ	ISL6208CBZ-T	ISL6605CBZA-TS2568S
ISL3159EFBZ-T	ISL32175EIBZ-T	ISL6208CBZ-TS2568	ISL6605CBZR5168
ISL3159EFBZ-T7A	ISL32272EFBZ	ISL6208IBZ	ISL6605CBZ-T
ISL3159EIBZ	ISL32272EFBZ-T	ISL6208IBZ-T	ISL6605CBZ-TR5168
ISL3159EIBZ-T	ISL32272EIBZ	ISL6209CBZ	ISL6605CBZ-TS2568
ISL3159EIBZ-T7A	ISL32272EIBZ-T	ISL6209CBZR5157	ISL6605IBZ
ISL3170EIBZ	ISL32273EFBZ	ISL6209CBZ-T	ISL6605IBZ-T
ISL3170EIBZ-T	ISL32273EFBZ-T	ISL6209CBZ-TR5157	ISL6608CBZ
ISL3171EIBZ	ISL32273EIBZ	ISL6294IBZ	ISL6608CBZ-T
ISL3171EIBZ-T	ISL32273EIBZ-T	ISL6294IBZ-T	ISL6608IBZ
ISL3172EIBZ	ISL32274EFBZ	ISL6535CBZ	ISL6608IBZ-T
ISL3172EIBZ-T	ISL32274EFBZ-T	ISL6535CBZ-T	ISL6609ACBZ
ISL3172EIBZ-T7A	ISL32274EIBZ	ISL6535CBZ-TS2709	ISL6609ACBZ-T
ISL3173EIBZ	ISL32274EIBZ-T	ISL6535IBZ	ISL6609ACBZ-TS2568
ISL3173EIBZ-T	ISL32275EFBZ	ISL6535IBZ-T	ISL6609AIBZ
ISL3174EIBZ	ISL32275EFBZ-T	ISL6545ACBZ	ISL6609AIBZ-T
ISL3174EIBZ-T	ISL32275EIBZ	ISL6545ACBZS2698	ISL6609CBZ
ISL3175EIBZ	ISL32275EIBZ-T	ISL6545ACBZ-T	ISL6609CBZ-T
ISL3175EIBZ-T	ISL32372EFBZ	ISL6545ACBZ-TS2698	ISL6609CBZ-TS2705
ISL3176EIBZ	ISL32372EFBZ-T	ISL6545AIBZ	ISL6609IBZ
ISL3176EIBZ-T	ISL32372EIBZ	ISL6545AIBZ-T	ISL6609IBZ-T
ISL3177EIBZ	ISL32372EIBZ-T	ISL6545IBZ	ISL6610ACBZ
ISL3177EIBZ-T	ISL32374EFBZ	ISL6545IBZS2704	ISL6610ACBZ-T
ISL3178AEMBZ	ISL32374EFBZ-T	ISL6545IBZ-T	ISL6610AIBZ
ISL3178AEMBZ-T	ISL32374EIBZ	ISL6545IBZ-TS2568	ISL6610AIBZ-T
ISL3178EIBZ	ISL32374EIBZ-T	ISL6545IBZ-TS2704	ISL6612AIBZ
ISL3178EIBZ-T	ISL3259EIBZ	ISL6549CBZ	ISL6612AIBZ-T
ISL3178EIBZ-T7A	ISL3259EIBZ-T	ISL6549CBZR5194	ISL6612BCBZ
ISL3179EFBZ	ISL3485EFBZ	ISL6549CBZR5213	ISL6612BCBZ-T
ISL3179EFBZ-T	ISL3485EFBZ-T	ISL6549CBZ-T	ISL6612BIBZ
ISL3179EFBZ-T7A	ISL43485IBZ	ISL6549CBZ-TR5194	ISL6612BIBZ-T
ISL3179EIBZ	ISL43485IBZ-T	ISL6549CBZ-TR5213	ISL6612CBZ

## PCN12068 – Products Affected – cont.

ISL6612CBZA	ISL6614CBZR5214	ISL6744AABZ	ISL83071EIBZA-TS2490
ISL6612CBZAR5214	ISL6614CBZR5238	ISL6744AABZ-T	ISL83072EIBZA
ISL6612CBZA-T	ISL6614CBZ-T	ISL6744ABZ	ISL83072EIBZA-T
ISL6612CBZA-TR5214	ISL6614CBZ-TR5214	ISL6744ABZ-T	ISL83072EIBZA-T7A
ISL6612CBZA-TS2490	ISL6614CBZ-TR5238	ISL6744ABZ-TR5231	ISL83072EIBZA-TS2490
ISL6612CBZA-TS2490S	ISL6614IBZ	ISL6744ABZ-TR5252	ISL83073EIBZA
ISL6612CBZA-TS2490S1	ISL6614IBZR5238	ISL6840IBZ	ISL83073EIBZA-T
ISL6612CBZA-TS2568	ISL6614IBZ-T	ISL6840IBZ-T	ISL83075EIBZA
ISL6612CBZR5214	ISL6614IBZ-TR5238	ISL6841IBZ	ISL83075EIBZA-T
ISL6612CBZR5238	ISL6615ACBZ	ISL6841IBZ-T	ISL83076EIBZA
ISL6612CBZ-T	ISL6615ACBZ-T	ISL6842IBZ	ISL83076EIBZA-T
ISL6612CBZ-TR5214	ISL6615AIBZ	ISL6842IBZ-T	ISL83077EIBZA
ISL6612CBZ-TR5238	ISL6615AIBZ-T	ISL6843IBZ	ISL83077EIBZA-T
ISL6612CBZ-TS2568	ISL6615CBZ	ISL6843IBZ-T	ISL83078EIBZA
ISL6612IBZ	ISL6615CBZ-T	ISL6844IBZ	ISL83078EIBZA-T
ISL6612IBZR5238	ISL6615IBZ	ISL6844IBZ-T	ISL83078EIBZA-TR5194
ISL6612IBZ-T	ISL6615IBZ-T	ISL6845IBZ	ISL83080EIBZ
ISL6612IBZ-TR5238	ISL6620ACBZ	ISL6845IBZ-T	ISL83080EIBZ-T
ISL6613ACBZ	ISL6620ACBZ-T	ISL6883IBZ	ISL83082EIBZ
ISL6613ACBZ-T	ISL6620AIBZ	ISL6883IBZ-T	ISL83082EIBZ-T
ISL6613AIBZ	ISL6620AIBZ-T	ISL8104CBZ	ISL83082EIBZ-TS2490
ISL6613AIBZ-T	ISL6620CBZ	ISL8104CBZ-T	ISL83083EIBZ
ISL6613BCBZ	ISL6620CBZ-T	ISL8104IBZ	ISL83083EIBZ-T
ISL6613BCBZ-T	ISL6620IBZ	ISL8104IBZ-T	ISL83084EIBZ
ISL6613BIBZ	ISL6620IBZ-T	ISL8105AIBZ	ISL83084EIBZ-T
ISL6613BIBZ-T	ISL6622ACBZ	ISL8105AIBZ-T	ISL83085EIBZ
ISL6613CBZ	ISL6622ACBZ-T	ISL8105BCBZ	ISL83085EIBZ-T
ISL6613CBZR5194	ISL6622AIBZ	ISL8105BCBZ-T	ISL83086EIBZ
ISL6613CBZR5214	ISL6622AIBZ-T	ISL8105BIBZ	ISL83086EIBZ-T
ISL6613CBZ-T	ISL6622BCBZ	ISL8105BIBZ-T	ISL83088EIBZ
ISL6613CBZ-TR5194	ISL6622BCBZ-T	ISL8105IBZ	ISL83088EIBZ-T
ISL6613CBZ-TR5214	ISL6622BIBZ	ISL8105IBZ-T	ISL83483IBZ
ISL6613IBZ	ISL6622BIBZ-T	ISL81483IBZ	ISL83483IBZ-T
ISL6613IBZ-T	ISL6622CBZ	ISL81483IBZ-T	ISL83483IBZ-T7A
ISL6614ACBZ	ISL6622CBZ-T	ISL81485IBZ	ISL83485ABZA-T
ISL6614ACBZA	ISL6622CBZ-TS2568	ISL81485IBZ-T	ISL83485IBZ
ISL6614ACBZA-T	ISL6622IBZ	ISL81486IBZ	ISL83485IBZ-T
ISL6614ACBZA-TS2490	ISL6622IBZ-T	ISL81486IBZ-T	ISL83485IBZ-T7A
ISL6614ACBZR5214	ISL6721ABZ	ISL81487EIBZ	ISL83488IBZ
ISL6614ACBZ-T	ISL6721ABZ-T	ISL81487EIBZ-T	ISL83488IBZ-T
ISL6614ACBZ-TR5214	ISL6722AABZ	ISL81487IBZ	ISL83490IBZ
ISL6614AIBZ	ISL6722AABZ-T	ISL81487IBZ-T	ISL83490IBZ-T
ISL6614AIBZ-T	ISL6723AABZ	ISL81487LFBZR5469	ISL83491IBZ
ISL6614BCBZ	ISL6723AABZ-T	ISL81487LFBZ-TR5469	ISL83491IBZ-T
ISL6614BCBZ-T	ISL6729IBZ	ISL81487LIBZ	ISL83491IBZ-T7A
ISL6614BIBZ	ISL6729IBZ-T	ISL81487LIBZ-T	ISL8483EIBZ
ISL6614BIBZ-T	ISL6740IBZ	ISL83070EIBZA	ISL8483EIBZ-T
ISL6614CBZ	ISL6740IBZ-T	ISL83070EIBZA-T	ISL8483IBZ
ISL6614CBZA	ISL6741IBZ	ISL83071EIBZA	ISL8483IBZ-T
ISL6614CBZA-T	ISL6741IBZ-T	ISL83071EIBZA-T	ISL8485CBZ

## PCN12068 – Products Affected – cont.

ISL8485CBZ-T	ISL8700IBZ	ISL8842AMBEPZ
ISL8485EABZ	ISL8700IBZ-T	ISL8842AMBEPZ-TK
ISL8485EABZ-T	ISL8700IBZ-TS2705	ISL8842AMBZ
ISL8485ECBZ	ISL8701AIBZ	ISL8842AMBZ-T
ISL8485ECBZ-T	ISL8701AIBZ-T	ISL8843AABZ
ISL8485EIBZ	ISL8701IBZ	ISL8843AABZ-T
ISL8485EIBZ-T	ISL8701IBZ-T	ISL8843ABZ
ISL8485EIBZ-TR5194	ISL8702AIBZ	ISL8843ABZ-T
ISL8485IBZ	ISL8702AIBZ-T	ISL8843AMBEPZ
ISL8485IBZ-T	ISL8702IBZ	ISL8843AMBEPZ-TK
ISL8487EIBZ	ISL8702IBZ-T	ISL8843AMBZ
ISL8487EIBZ-T	ISL8702IBZ-TS2705	ISL8843AMBZ-T
ISL8487IBZ	ISL8703AIBZ	ISL8843MBZ
ISL8487IBZ-T	ISL8703AIBZ-T	ISL8843MBZ-T
ISL8488EIBZA	ISL8704AIBZ	ISL8844AABZ
ISL8488EIBZA-T	ISL8704AIBZ-T	ISL8844AABZ-T
ISL8488EIBZA-TS2490	ISL8705AIBZ	ISL8844AMBEPZ
ISL8488IBZ	ISL8705AIBZ-T	ISL8844AMBEPZ-TK
ISL8488IBZ-T	ISL8840AABZ	ISL8844AMBZ
ISL8489EIBZ	ISL8840AABZ-T	ISL8844AMBZ-T
ISL8489EIBZA-TS2490	ISL8840AMBEPZ	ISL8845AABZ
ISL8489EIBZ-T	ISL8840AMBEPZ-TK	ISL8845AABZ-T
ISL8490EIBZ	ISL8840AMBZ	ISL8845AMBEPZ
ISL8490EIBZ-T	ISL8840AMBZ-T	ISL8845AMBEPZ-TK
ISL8490IBZ	ISL8841AABZ	ISL8845AMBZ
ISL8490IBZ-T	ISL8841AABZ-T	ISL8845AMBZ-T
ISL8491EIBZ	ISL8841AMBEPZ	PX3511ADAG
ISL8491EIBZ-T	ISL8841AMBEPZ-TK	PX3511ADAG-R3
ISL8491IBZ	ISL8841AMBZ	PX3511BDAG
ISL8491IBZ-T	ISL8841AMBZ-T	PX3511BDAG-R3
ISL8700AIBZ	ISL8842AABZ	
ISL8700AIBZ-T	ISL8842AABZ-T	