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# **PRODUCT CHANGE NOTICE**

**Alternate Bond Wire Material  
for Assembly of the Listed  
Intersil DFN/QFN Packaged  
Products**

**Refer to:  
PCN13038A**

**Date: February 07, 2014**

February 07, 2014

To: Our Valued Intersil Customer

Subject: **Alternate Bond Wire Material for Assembly of the Listed Intersil DFN/QFN Packaged Products – Carsem (CAS) Ipoh, Malaysia**

**PCN13038A is being issued to inform customers that Intersil has updated the list of affected products contained in notice PCN13038 that was issued on June 11, 2013. The products listed in the table below have been removed from the notice. As such, the changes outlined in PCN13038 will not be implemented for those products. The content of the original notice, PCN13038, with the updated product list is included for reference.**

**Products removed from PCN13038:**

ISL97635AIRZ	ISL97636AIRZ	ISL97650ARTZ	ISL97656IRTZ
ISL97635AIRZ-T	ISL97636AIRZ-T	ISL97650ARTZ-T	ISL97656IRTZ-T
ISL97635AIRZ-TK	ISL97636AIRZ-TK	ISL97650ARTZ-TK	ISL97656IRTZ-TK

This notice is to inform you that Intersil is qualifying copper bond wire as an alternate to the gold bond wire currently used for assembly of the listed DFN/QFN (Dual/Quad Flat No-lead) packaged products at the Carsem (CAS) facility located in Ipoh, Malaysia. 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 complete.

The Carsem (CAS) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and qualified as a supplier to Intersil for assembly of DFN/QFN packaged products with both copper and gold bond wire material. Products assembled with copper bond wire are classified as moisture sensitivity level three (MSL 3 at 260°C per J-STD-020). As such, the listed products will be packed, labeled, and shipped as moisture sensitivity level three (MSL 3) upon implementation of the changes outlined in this PCN.

The qualification plan for copper bond wire assembly 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 copper bond wire assembly qualification plan is included for reference. 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.

Products affected by this change that are assembled using either gold or copper bond wire material are identifiable via Intersil's internal traceability system and by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at CAS with copper bond wire is "X". The site code for product assembled at CAS with gold bond wire is "F".

Intersil will take all necessary actions to conform to agreed upon customer requirements and to ensure the continued high quality and reliability of products being supplied. Customers may expect to receive product assembled using either gold or copper bond wire beginning *ninety* days from the date of original notice, June 11, 2013 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,

Jeff Touvell

Intersil Corporation

PCN13038A

CC: J. Touvell D. Decrosta YW Cheong D. Singh S. Nadarajah

## PCN13038A – Products Affected

ISL3159EFRZ	ISL62883BHRTZ-T	ISL6313CRZ-TS2701	ISL6341BIRZR5326	ISL6611ACRZ
ISL3159EFRZ-T	ISL62883BHRTZ-TR5411	ISL6313CRZ-TS2705	ISL6341BIRZ-T	ISL6611ACRZ-T
ISL3159EFRZ-T7A	ISL6292-2CR4ZR5209	ISL6313IRZ	ISL6341BIRZ-TR5326	ISL6611AIRZ
ISL3159EIRZ	ISL6292-2CR4Z-TR5209	ISL6313IRZ-T	ISL6341CCRZ	ISL6611AIRZ-T
ISL3159EIRZ-T	ISL6292BCRZ	ISL6334ACRZR5368	ISL6341CCRZ-T	ISL6612BCRZ
ISL3159EIRZ-T7A	ISL6292BCRZ-T	ISL6334ACRZ-TR5368	ISL6341CIRZ	ISL6612BCRZ-T
ISL3179EFRZ	ISL6292CCR3Z	ISL6334ACRZ-TS2490	ISL6341CIRZ-T	ISL6613BCRZ
ISL3179EFRZ-T	ISL6292CCR3Z-TR5166	ISL6334AIRZR5368	ISL6341CRZ	ISL6613BCRZ-T
ISL3179EIRZ	ISL6293-2CRZ	ISL6334AIRZ-TR5368	ISL6341CRZR5326	ISL6614CRZAR5214
ISL3179EIRZ-T	ISL6293-2CRZR5162	ISL6334BCRZ	ISL6341CRZ-T	ISL6614CRZA-TR5214
ISL3259EIRZ	ISL6293-2CRZ-T	ISL6334BCRZ-T	ISL6341CRZ-TR5326	ISL6614CRZA-TS2568
ISL3259EIRZ-T	ISL6293-2CRZ-TR5162	ISL6334BIRZ	ISL6341CRZ-TS2490	ISL6614CRZR5214
ISL3282EFRTZ-T	ISL6294AIRZ-T	ISL6334BIRZ-T	ISL6341CRZ-TS2568	ISL6614CRZR5238
ISL3282EIRTZ-T	ISL6294IRZ-T	ISL6334CCRZ	ISL6341IRZ	ISL6614CRZS2704
ISL3285EFRTZ-T	ISL6294IRZ-TS2687	ISL6334CCRZ-T	ISL6341IRZR5326	ISL6614CRZ-TR5214
ISL3285EIRTZ-T	ISL6294IRZ-TS2688	ISL6334CIRZ	ISL6341IRZ-T	ISL6614CRZ-TR5238
ISL3296EFRTZ-T	ISL6294IRZ-TS2697	ISL6334CIRZ-T	ISL6341IRZ-TR5326	ISL6614CRZ-TS2704
ISL3296EIRTZ-T	ISL6297CRZ	ISL6334DCRZ-TS2490	ISL6423BERZ	ISL6614CRZ-TS2705
ISL3297EFRTZ-T	ISL6297CRZ-T	ISL6336ACRZ	ISL6423BERZR5434	ISL6614IRZ
ISL3297EIRTZ-T	ISL6298-2CR3Z	ISL6336ACRZ-T	ISL6423BERZ-T	ISL6614IRZR5238
ISL3298EFRTZ-T	ISL6298-2CR3Z-T	ISL6336ACRZ-TS2568	ISL6423BERZ-TR5434	ISL6614IRZ-T
ISL3298EIRTZ-T	ISL6298-2CR4Z	ISL6336ACRZ-TS2705	ISL6423BERZ-TR5488	ISL6614IRZ-TR5238
ISL6112IRZA	ISL6298-2CR4Z-T	ISL6336AIRZ	ISL6423ERZ	ISL6615ACRZ
ISL6112IRZA-T	ISL6298CR4Z	ISL6336AIRZ-T	ISL6423ERZ-T	ISL6615ACRZ-T
ISL6113IRZA	ISL6298CR4Z-T	ISL6336BCRZ	ISL6545ACRZ	ISL6615ACRZ-TS2705
ISL6113IRZA-T	ISL6299AIRZ	ISL6336BCRZ-T	ISL6545ACRZ-T	ISL6615AFRZ
ISL6114IRZA	ISL6299AIRZ-T	ISL6336BIRZ	ISL6545AIRZ	ISL6615AFRZ-T
ISL6114IRZA-T	ISL6299AIRZ-TS2697	ISL6336BIRZ-T	ISL6545AIRZ-T	ISL6615AIRZ
ISL6210CRZ	ISL6299IRZ	ISL6336CRZ	ISL6545CRZ	ISL6615AIRZ-T
ISL6210CRZ-T	ISL6299IRZ-T	ISL6336CRZ-T	ISL6545CRZ-T	ISL6615AIRZ-TS2705
ISL6228HRTZ	ISL6308ACRZ	ISL6336CRZ-TS2490	ISL6545CRZ-TS2568	ISL6615CRZ
ISL6228HRTZ-T	ISL6308ACRZ-T	ISL6336CRZ-TS2568	ISL6545CRZ-TS2694	ISL6615CRZ-T
ISL6228HRTZ-TS2568	ISL6308AIRZ	ISL6336CRZ-TS2705	ISL6545IRZ	ISL6615IRZ
ISL6228HRTZ-TS2705	ISL6308AIRZ-T	ISL6336GCRZ	ISL6545IRZ-T	ISL6615IRZ-T
ISL6228IRTZ	ISL6308AIRZ-TS2705	ISL6336GCRZ-T	ISL6549CRZ	ISL6617CRZ
ISL6228IRTZ-T	ISL6308CRZR5342	ISL6336GIRZ	ISL6549CRZR5213	ISL6617CRZ-T
ISL62381HRTZ	ISL6308CRZ-TR5342	ISL6336GIRZ-T	ISL6549CRZ-T	ISL6617IRZ
ISL62381HRTZ-T	ISL6308IRZR5342	ISL6336IRZ	ISL6549CRZ-TR5213	ISL6617IRZ-T
ISL62386HRTZ	ISL6308IRZ-TR5342	ISL6336IRZ-T	ISL6549IRZ	ISL6620ACRZ
ISL62386HRTZ-T	ISL6313BCRZ	ISL6341ACRZ	ISL6549IRZ-T	ISL6620ACRZ-T
ISL6258AHRTZ	ISL6313BCRZ-T	ISL6341ACRZ-T	ISL6594DCRZ	ISL6620AIRZ
ISL6258HRTZ-T	ISL6313BCRZ-TS2568	ISL6341ACRZ-TS2568	ISL6594DCRZ-T	ISL6620AIRZ-T
ISL6265HRTZ	ISL6313BCRZ-TS2704	ISL6341AIRZ	ISL6596CRZ	ISL6620CRZ
ISL6265HRTZ-T	ISL6313BCRZ-TS2705	ISL6341AIRZ-T	ISL6596CRZ-T	ISL6620CRZ-T
ISL62882BHRTZ	ISL6313BIRZ	ISL6341BCRZ	ISL6596CRZ-TS2490	ISL6620CRZ-TS2490
ISL62882BHRTZR5411	ISL6313BIRZ-T	ISL6341BCRZR5326	ISL6596CRZ-TS2568	ISL6620CRZ-TS2568
ISL62882BHRTZ-T	ISL6313CRZ	ISL6341BCRZ-T	ISL6596IRZ	ISL6620IRZ
ISL62882BHRTZ-TR5411	ISL6313CRZ-T	ISL6341BCRZ-TR5326	ISL6596IRZ-T	ISL6620IRZ-T
ISL62883BHRTZ	ISL6313CRZ-TS2490	ISL6341BCRZ-TS2490	ISL6597CRZ	ISL6622ACRZ
ISL62883BHRTZR5411	ISL6313CRZ-TS2568	ISL6341BIRZ	ISL6597CRZ-T	ISL6622ACRZ-T

## PCN13038A – Products Affected

ISL6622ACRZ-TS2568	ISL9203ACRZ	ISL97632IRT18Z-T	ISL97652IRZ-T
ISL6622AIRZ	ISL9203ACRZ-T	ISL97632IRT18Z-TK	ISL97652IRZ-TK
ISL6622AIRZ-T	ISL9203CRZR5220	ISL97632IRT26Z-T	ISL97653AIRZ
ISL6622AIRZ-TS2705	ISL9203CRZ-TR5220	ISL97632IRT26Z-TK	ISL97653AIRZR5425
ISL6622BCRZ	ISL9204IRZ-T	ISL97634IRT14Z-T	ISL97653AIRZ-T
ISL6622BCRZ-T	ISL9209BIRZ	ISL97634IRT14Z-TK	ISL97653AIRZ-TK
ISL6622BIRZ	ISL9209BIRZ-T	ISL97634IRT18Z-T	ISL97653AIRZ-TKR5425
ISL6622BIRZ-T	ISL9209CIRZ	ISL97634IRT18Z-TK	ISL97653AIRZ-TR5425
ISL6721AARZ	ISL9209CIRZ-T	ISL97634IRT18ZTS2568	
ISL6721AARZ-T	ISL9209IRZ	ISL97634IRT26Z-T	
ISL6722AARZ	ISL9209IRZ-T	ISL97634IRT26Z-TK	
ISL6722AARZ-T	ISL9212AIRZ	ISL97634IRT26ZTS2568	ISL97656IRTZ-TS2720
ISL6840IRZ-T	ISL9212AIRZ-T		ISL97801ARZ
ISL6841IRZ-T	ISL9212BIRZ		ISL97801ARZ-T
ISL6842IRZ-T	ISL9212BIRZ-T		ISL97801ARZ-TK
ISL6843IRZ-T	ISL9212IRZ	ISL97635IRZ	ISL97801ARZ-TS2490
ISL6844IRZ-T	ISL9212IRZ-T	ISL97635IRZS2038	ISL97801ARZ-TS2717
ISL6845IRZ-T	ISL9214AIRZ	ISL97635IRZ-T	PX3511BDDG
ISL8105ACRZ	ISL9214AIRZ-T	ISL97635IRZ-TK	PX3511BDDG-RA
ISL8105ACRZ-T	ISL9214IRZ	ISL97635IRZ-TKS2038	PX3511DDDG-RA
ISL8105AIRZ	ISL9214IRZ-T		
ISL8105AIRZ-T	ISL9219IRZ		
ISL8105BCRZ	ISL9219IRZR5332		
ISL8105BCRZ-T	ISL9219IRZR5385	ISL97636IRZ	
ISL8105BIRZ	ISL9219IRZ-T	ISL97636IRZ-T	
ISL8105BIRZ-T	ISL9219IRZ-TR5332	ISL97636IRZ-TK	
ISL8105CRZ	ISL9219IRZ-TR5385	ISL97642IRTZ	
ISL8105CRZ-T	ISL9221IRZ	ISL97642IRTZ-T	
ISL8105IRZ	ISL9221IRZ-T	ISL97642IRTZ-TK	
ISL8105IRZ-T	ISL9222AIRTZ-T	ISL97645AIRZ	
ISL85001IRZ	ISL9228IRZ	ISL97645AIRZ-T	
ISL85001IRZ-T	ISL9228IRZ-T	ISL97645AIRZ-TK	
ISL8500IRZ	ISL9301IRZ	ISL97645IRZ	
ISL8500IRZ-T	ISL9301IRZ-T	ISL97645IRZ-T	
ISL8500IRZ-TS2490	ISL9518AHRTZ	ISL97645IRZ-TK	
ISL8500IRZ-TS2718	ISL9518AHRTZ-T	ISL97646IRZ-T	
ISL8500IRZ-TS2719	ISL9518HRTZ	ISL97646IRZ-TK	
ISL8501IRZ	ISL9518HRTZ-T		
ISL8501IRZ-T	ISL9519HRTZ	ISL97650ARTZR5322	
ISL8502AIRZ	ISL9519HRTZ-T		
ISL8502AIRZ-T	ISL9519HRTZ-TS2568		
ISL8502IRZ	ISL9519HRTZ-TS2720	ISL97650ARTZ-TKR5322	
ISL8502IRZ-T	ISL9519IRTZ	ISL97650ARTZ-TR5322	
ISL8502IRZ-TS2568	ISL9519IRTZ-T	ISL97650BIRTZ	
ISL8502IRZ-TS2695	ISL9519QHRTZ	ISL97650BIRTZ-T	
ISL8510IRZ	ISL9519QHRTZ-T	ISL97650BIRTZ-TK	
ISL8510IRZ-T	ISL9519RHRTZ	ISL97651ARTZ	
ISL8510IRZ-TS2490	ISL9519RHRTZ-T	ISL97651ARTZ-T	
ISL9200IRZ	ISL97632IRT14Z-T	ISL97651ARTZ-TK	
ISL9200IRZ-T	ISL97632IRT14Z-TK	ISL97652IRZ	

## PCN13038A – CAS Reliability Qualification Results

Device: ISL6312CRZ-T (48L 7x7 QFN)					
Stress / Conditions	Duration	Test lots			Result
		Lot #1	Lot #2	Lot #3	
MSL Classification	L3 PBFfree	N = 22			Pass
		Acc = 0			
bHAST 130C / 85% RH	96 Hrs	N = 26	N = 26	N = 26	Pass
		Acc = 0	Acc = 0	Acc = 0	
uHAST 130C / 85% RH	96 Hrs	N = 26	N = 26	N = 26	Pass
		Acc = 0	Acc = 0	Acc = 0	
Temp Cycle -65C to +150C	500 cyc	N = 80	N = 80	N = 80	Pass
		Acc = 0	Acc = 0	Acc = 0	
Storage Life 150C	1000 Hrs	N = 26	N = 26	N = 26	Pass
		Acc = 0	Acc = 0	Acc = 0	

Device: ISL6620IRZ-T (10L 3x3 DFN)					
Stress / Conditions	Duration	Test lots			Result
		Lot #1	Lot #2	Lot #3	
MSL Classification	L3 PBFfree	N = 22			Pass
		Acc = 0			
uHAST 130C / 85% RH	96 Hrs	N = 26	N = 26	N = 26	Pass
		Acc = 0	Acc = 0	Acc = 0	
Temp Cycle -65C to +150C	500 cyc	N = 80	N = 80	N = 80	Pass
		Acc = 0	Acc = 0	Acc = 0	
Storage Life 150C	1000 Hrs	N = 26	N = 26	N = 26	Pass
		Acc = 0	Acc = 0	Acc = 0	