PRODUCT CHANGE NOTICE

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

Refer to: PCN13005

Date: January 23, 2013

intersil SIMPLY SMARTER[®]

January 23, 2013

To: Our Valued Intersil Customer

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

This notice is to inform you that Intersil has qualified 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. As of this notice, all product and package 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 results 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 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,

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Jon Brewster Intersil Corporation

PCN13005

CC: J. Touvell D. Decrosta D. Foster D. Singh S. Nadarajah R. Pitts G. Liang P. Bianco



PCN13005 – Products Affected

ISL23345TFRZ	ISL23448WFRZ	ISL80111IRAJZ-T7A	ISL89167FRTAZ
ISL23345TFRZ-T7A	ISL23448WFRZ-T7A	ISL80112IRAJZ	ISL89167FRTAZ-T
ISL23345TFRZ-TK	ISL23448WFRZ-TK	ISL80112IRAJZ-T	ISL89168FRTAZ
ISL23345UFRZ	ISL33001IRT2Z	ISL80112IRAJZ-T7A	ISL89168FRTAZ-T
ISL23345UFRZ-T7A	ISL33001IRT2Z-T	ISL80113IRAJZ	ISL89367FRTAZ
ISL23345UFRZ-TK	ISL33002IRT2Z	ISL80113IRAJZ-T	ISL89367FRTAZ-T
ISL23345WFRZ	ISL33002IRT2Z-T	ISL80113IRAJZ-T7A	ISL97671AIRZ
ISL23345WFRZ-T7A	ISL33003IRT2Z	ISL89160FRTAZ	ISL97671AIRZ-T
ISL23345WFRZ-TK	ISL33003IRT2Z-T	ISL89160FRTAZ-T	ISL97671AIRZ-TK
ISL23348TFRZ	ISL55119IRTZ	ISL89160FRTBZ	ISL97671AIRZ-TR5533
ISL23348TFRZ-T7A	ISL55119IRTZ-TK	ISL89160FRTBZ-T	ISL97671IRZ
ISL23348TFRZ-TK	ISL6146AFRZ	ISL89161FRTAZ	ISL97671IRZ-T
ISL23348UFRZ	ISL6146AFRZ-T	ISL89161FRTAZ-T	ISL97671IRZ-TK
ISL23348UFRZ-T7A	ISL6146AFRZ-T7A	ISL89161FRTBZ	ISL97672AIRZ
ISL23348UFRZ-TK	ISL6146AFRZ-TK	ISL89161FRTBZ-T	ISL97672AIRZ-T
ISL23348WFRZ	ISL6146BFRZ	ISL89162FRTAZ	ISL97672AIRZ-TK
ISL23348WFRZ-T7A	ISL6146BFRZ-T	ISL89162FRTAZ-T	ISL97672BIRZ
ISL23348WFRZ-TK	ISL6146BFRZ-T7A	ISL89162FRTBZ	ISL97672BIRZ-T
ISL23445TFRZ	ISL6146BFRZ-TK	ISL89162FRTBZ-T	ISL97673IRZ
ISL23445TFRZ-T7A	ISL6146CFRZ	ISL89164FRTAZ	ISL97673IRZ-T
ISL23445TFRZ-TK	ISL6146CFRZ-T	ISL89164FRTAZ-T	ISL97673IRZ-TK
ISL23445UFRZ	ISL6146CFRZ-T7A	ISL89164FRTBZ	ISL97674IRZ
ISL23445UFRZ-T7A	ISL6146CFRZ-TK	ISL89164FRTBZ-T	ISL97674IRZ-T
ISL23445UFRZ-TK	ISL6146DFRZ	ISL89164FRTCZ	ISL97674IRZ-TK
ISL23445WFRZ	ISL6146DFRZ-T	ISL89164FRTCZ-T	ISL97675IRZ
ISL23445WFRZ-T7A	ISL6146DFRZ-T7A	ISL89165FRTAZ	ISL97675IRZ-T
ISL23445WFRZ-TK	ISL6146DFRZ-TK	ISL89165FRTAZ-T	ISL97675IRZ-TK
ISL23448TFRZ	ISL6146EFRZ	ISL89165FRTBZ	ISL97676IRZ
ISL23448TFRZ-T7A	ISL6146EFRZ-T	ISL89165FRTBZ-T	ISL97676IRZ-T
ISL23448TFRZ-TK	ISL6146EFRZ-T7A	ISL89165FRTCZ	ISL97676IRZ-TK
ISL23448UFRZ	ISL6146EFRZ-TK	ISL89165FRTCZ-T	
ISL23448UFRZ-T7A	ISL80111IRAJZ	ISL89166FRTAZ	
ISL23448UFRZ-TK	ISL80111IRAJZ-T	ISL89166FRTAZ-T	



PCN13005 – CAS Reliability Qualification Summary

Device: ISL62883CHRTZ (40L 5x5 TQFN)									
Stress /	Duration	Test lots			Control	Beault			
Conditions	Duration	Lot #1	Lot #2	Lot #3	Lot	Result			
MSL Classification	L3	N = 22	N = 22	N = 22	N = 22	PASS			
	PBFree	Acc = 0	Acc = 0	Acc = 0	Acc = 0				
uHAST	96 Hrs	N = 26	N = 26	N = 26	N = 78	PASS			
130C / 85% RH		Acc = 0	Acc = 0	Acc = 0	Acc = 0				
Temp Cycle	500 0/0	N = 80	N = 80	N = 80	N = 80	DASS			
-65C to +150C	SUO Cyc	Acc = 0	Acc = 0	Acc = 0	Acc = 0	FA33			
Device: ISL95870BHRZ (20L 3X4 QFN)									
Stress /	Duration		Test lots		Control	Decult			
Conditions	Duration	Lot #1	Lot #2	Lot #3	Lot	Result			
MSI Classification	L3	N = 22	N = 22	N = 22	N = 22	PASS			
	PBFree	Acc = 0	Acc = 0	Acc = 0	Acc = 0				
uHAST		N = 26	N = 26	N = 26	N = 78	DACC			
130C / 85% RH	90 115	Acc = 0	Acc = 0	Acc = 0	Acc = 0	PASS			
Temp Cycle	500 ava	N = 80	N = 80	N = 80	N = 80	PASS			
-65C to +150C	500 cyc	Acc = 0	Acc = 0	Acc = 0	Acc = 0				
Device: ISL80121IR50Z (10L 3X3 DFN)									
Stress /	Duration	Test lots		Control	Becult				
Conditions		Lot #1	Lot #2	Lot #3	Lot	Result			
	L3 PBFree	N = 22	N = 22	N = 22	N = 22	PASS			
WSL Classification		Acc = 0	Acc = 0	Acc = 0	Acc = 0				
UHAST									
		N = 26	N = 26	N = 26	N = 78	DACC			
130C / 85% RH	96 Hrs	N = 26 Acc = 0	N = 26 Acc = 0	N = 26 Acc = 0	N = 78 Acc = 0	PASS			
130C / 85% RH Temp Cycle	96 Hrs	N = 26 Acc = 0 N = 80	N = 26 Acc = 0 N = 80	N = 26 Acc = 0 N = 80	N = 78 Acc = 0 N = 80	PASS			
130C / 85% RH Temp Cycle -65C to +150C	96 Hrs 500 cyc	N = 26 Acc = 0 N = 80 Acc = 0	N = 26 Acc = 0 N = 80 Acc = 0	N = 26 Acc = 0 N = 80 Acc = 0	N = 78 Acc = 0 N = 80 Acc = 0	PASS PASS			
130C / 85% RH Temp Cycle -65C to +150C	96 Hrs 500 cyc	N = 26 Acc = 0 N = 80 Acc = 0	N = 26 Acc = 0 N = 80 Acc = 0	N = 26 Acc = 0 N = 80 Acc = 0	N = 78 $Acc = 0$ $N = 80$ $Acc = 0$	PASS PASS			
130C / 85% RH Temp Cycle -65C to +150C	96 Hrs 500 cyc ice: ISL9	N = 26 Acc = 0 N = 80 Acc = 0 492ER	N = 26 Acc = 0 N = 80 Acc = 0 Z (28L	N = 26 Acc = 0 N = 80 Acc = 0 4X4 D	N = 78 Acc = 0 N = 80 Acc = 0	PASS PASS			
130C / 85% RH Temp Cycle -65C to +150C Dev Stress /	96 Hrs 500 cyc ice: ISL9	N = 26 Acc = 0 N = 80 Acc = 0 492ER	N = 26 Acc = 0 N = 80 Acc = 0 Z (28L Test lots	N = 26 Acc = 0 N = 80 Acc = 0	N = 78 Acc = 0 N = 80 Acc = 0 FN) Control	PASS			
130C / 85% RH Temp Cycle -65C to +150C Dev Stress / Conditions	96 Hrs 500 cyc ice: ISL9 Duration	N = 26 Acc = 0 N = 80 Acc = 0 492ER Lot #1	N = 26 Acc = 0 N = 80 Acc = 0 Z (28L Test lots Lot #2	N = 26 Acc = 0 N = 80 Acc = 0 4X4 D	N = 78 Acc = 0 N = 80 Acc = 0 FN) Control Lot	PASS PASS Result			
130C / 85% RH Temp Cycle -65C to +150C Dev Stress / Conditions	96 Hrs 500 cyc ice: ISL9 Duration L3	N = 26 Acc = 0 N = 80 Acc = 0 492ER Lot #1 N = 22	N = 26 Acc = 0 N = 80 Acc = 0 Z (28L Test lots Lot #2 N = 22	N = 26 Acc = 0 N = 80 Acc = 0 4X4 D Lot #3 N = 22	N = 78 Acc = 0 N = 80 Acc = 0 FN) Control Lot N = 22	PASS PASS Result			
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130C / 85% RH Temp Cycle -65C to +150C Dev Stress / Conditions MSL Classification uHAST 130C / 85% RH	96 Hrs 500 cyc ice: ISL9 Duration L3 PBFree 96 Hrs	N = 26 Acc = 0 N = 80 Acc = 0 492ER Lot #1 N = 22 Acc = 0 N = 26 Acc = 0	N = 26 Acc = 0 N = 80 Acc = 0 Z (28L Test lots Lot #2 N = 22 Acc = 0 N = 26 Acc = 0	N = 26 Acc = 0 N = 80 Acc = 0 4X4 D 4X4 D 4X4 D N = 22 Acc = 0 N = 26 Acc = 0	N = 78 Acc = 0 N = 80 Acc = 0 FN) Control Lot N = 22 Acc = 0 N = 78 Acc = 0	PASS PASS Result PASS			
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130C / 85% RH Temp Cycle -65C to +150C Dev Stress / Conditions MSL Classification uHAST 130C / 85% RH bHAST 130C / 85% RH Temp Cycle	96 Hrs 500 cyc ice: ISL9 Duration L3 PBFree 96 Hrs 96 Hrs	N = 26 Acc = 0 N = 80 Acc = 0 492ER Lot #1 N = 22 Acc = 0 N = 26 Acc = 0 N = 78 Acc = 0 N = 80	N = 26 Acc = 0 N = 80 Acc = 0 Z (28L Test lots Lot #2 Acc = 0 N = 26 Acc = 0 NA N = 80	N = 26 Acc = 0 Acc = 0 4X4 D 4X4 D Lot #3 N = 22 Acc = 0 N = 26 Acc = 0 NA N = 80	N = 78 Acc = 0 N = 80 Acc = 0 FN) Control Lot N = 22 Acc = 0 N = 78 Acc = 0 NA N = 80	PASS PASS Result PASS PASS			

