
PRODUCT CHANGE NOTICE

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

**Refer to:
PCN12032A**

Date: June 19, 2012

June 19, 2012

To: Our Valued Intersil Customer

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

PCN12032A is being issued to inform customers that Intersil has updated the list of affected products contained in notice PCN12032 that was issued on May 9, 2012. The ISL62882CHRTZ, ISL62882CHRTZ-T, ISL62883CHRTZ, ISL62883CHRTZ-T, ISL9492ERZ, ISL9492ERZ-T, ISL95870BHRZ, ISL95870BHRZ-T, ISL95870BIRZ and ISL95870BIRZ-T products have been removed from the notice. As such, the changes outlined in PCN12032 will not be implemented for those products. The content of the original notice, PCN12032, with the updated product list is included below for reference.

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.

Products affected:

| | | | |
|------------------|----------------------|------------------|----------------------|
| ISL62882CIRTZ | ISL80101IR33Z-T | ISL80102IR25Z-TK | ISL89163FRTAZ |
| ISL62882CIRTZ-T | ISL80101IR33Z-TK | ISL80102IRAJZ | ISL89163FRTAZ-T |
| ISL62883CIRTZ | ISL80101IR50Z | ISL80102IRAJZ-T | ISL89163FRTAZ-TR5523 |
| ISL62883CIRTZ-T | ISL80101IR50Z-T | ISL80102IRAJZ-TK | ISL89163FRTBZ |
| ISL80101AIRAJZ | ISL80101IR50Z-TK | ISL80103IR18Z | ISL89163FRTBZ-T |
| ISL80101AIRAJZ-T | ISL80101IRAJZ | ISL80103IR18Z-T | ISL89163FRTCZ |
| ISL80101IR15Z | ISL80101IRAJZ-T | ISL80103IR18Z-TK | ISL89163FRTCZ-T |
| ISL80101IR15Z-T | ISL80101IRAJZ-T7A | ISL80103IR25Z | ISL95870BHRZ-TS2490 |
| ISL80101IR18Z | ISL80101IRAJZ-TK | ISL80103IR25Z-T | ISL95870BHRZ-TS2568 |
| ISL80101IR18Z-T | ISL80101IRAJZ-TS2568 | ISL80103IR25Z-TK | ISL95870BHRZ-TS2705 |
| ISL80101IR18Z-TK | ISL80102IR18Z | ISL80103IRAJZ | ISL95870BIRZ-TS2568 |
| ISL80101IR25Z | ISL80102IR18Z-T | ISL80103IRAJZ-T | ISL95871BHRZ |
| ISL80101IR25Z-T | ISL80102IR18Z-TK | ISL80103IRAJZ-TK | ISL95871BHRZ-T |
| ISL80101IR25Z-TK | ISL80102IR25Z | ISL80121IR50Z | |
| ISL80101IR33Z | ISL80102IR25Z-T | ISL80121IR50Z-T | |

The Carsem (CAS) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and currently qualified as a primary supplier to Intersil for assembly of DFN/QFN packaged products. There will be no change in the mold compound, die attach, lead frame, or package outline drawing (POD). The qualified material set combinations for assembly and other key items are as follows:

| Key Items | CAS Current | CAS New (Alternate) |
|----------------------------|---------------------------|---|
| Mold Compound | Sumitomo EME-G770 | Sumitomo EME-G770 |
| Die Attach | QMI 519 | QMI 519 |
| Bond Wire | 1.0 and 1.3 mil Gold (Au) | 1.0 and 1.2 mil Copper/Palladium (CuPd) |
| Moisture Sensitivity Level | 1 or 2 | 3 |
| Device Marking - Site Code | F | X |

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 the listed products assembled using either gold or copper bond wire beginning *ninety* days from the date of the original notice, May 9, 2012, 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

Jon Brewster
Intersil Corporation

PCN12032A

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PCN12032A –CAS Reliability Qualification Summary

| Device: ISL62883CHRTZ-T (40L 5x5 TQFN) | | | | | | |
|---|---------------|-----------|--------|--------|----------------|--------|
| Stress / Conditions | Duration | Test lots | | | Control Lot | Result |
| | | Lot #1 | Lot #2 | Lot #3 | | |
| MSL classification | L3 PBFfree | 0/22 | 0/22 | 0/22 | 0/22 | PASS |
| uHAST 130C / 85% RH L3 PBFfree | 96 Hrs | 0/26 | 0/26 | 0/26 | 0/78 | PASS |
| Temp Cycle -65C to +150C L3 PBFfree | 500 cyc | 0/80 | 0/80 | 0/80 | 0/80 | PASS |

| Device: ISL95870BHRZ-TS2705 (20L 3X4 QFN) | | | | | | |
|---|---------------|-----------|--------|--------|----------------|--------|
| Stress / Conditions | Duration | Test lots | | | Control Lot | Result |
| | | Lot #1 | Lot #2 | Lot #3 | | |
| MSL classification | L3 PBFfree | 0/22 | 0/22 | 0/22 | 0/22 | PASS |
| uHAST 130C / 85% RH L3 PBFfree | 96 Hrs | 0/26 | 0/26 | 0/26 | 0/78 | PASS |
| Temp Cycle -65C to +150C L3 PBFfree | 500 cyc | 0/80 | 0/80 | 0/80 | 0/80 | PASS |

PCN12032A –CAS Reliability Qualification Summary – cont.

| Device: ISL80121IR50Z-T (10L 3X3 DFN) | | | | | | |
|--|--------------|-----------|--------|--------|----------------|--------|
| Stress / Conditions | Duration | Test lots | | | Control Lot | Result |
| | | Lot #1 | Lot #2 | Lot #3 | | |
| MSL classification | L3 PBFree | 0/22 | 0/22 | 0/22 | 0/22 | PASS |
| uHAST 130C / 85% RH L3 PBFree | 96 Hrs | 0/26 | 0/26 | 0/26 | 0/78 | PASS |
| Temp Cycle -65C to +150C L3 PBFree | 500 cyc | 0/80 | 0/80 | 0/80 | 0/80 | PASS |

| Device: ISL9492ERZ (28L 4X4 DFN) | | | | | | |
|--|--------------|-----------|--------|--------|----------------|--------|
| Stress / Conditions | Duration | Test lots | | | Control Lot | Result |
| | | Lot #1 | Lot #2 | Lot #3 | | |
| MSL classification | L3 PBFree | 0/22 | 0/22 | 0/22 | 0/22 | PASS |
| uHAST 130C / 85% RH L3 PBFree | 96 Hrs | 0/26 | 0/26 | 0/26 | 0/78 | PASS |
| Temp Cycle -65C to +150C L3 PBFree | 500 cyc | 0/80 | 0/80 | 0/80 | 0/80 | PASS |