
PRODUCT CHANGE NOTICE

**Alternate Manufacturing
Facility for the Listed Intersil
WLCSP Products**

**Refer to:
PCN13071**

Date: December 20, 2013

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To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Facility for the Listed Intersil WLCSP Products –Unisem (UNM) - Ipoh, Malaysia**

This notice is to inform you that Intersil has qualified the Unisem (UNM) facility as an alternate site for performing assembly, final electrical test, tape and reel, packing, and shipment of the listed Intersil products. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer's delivery requirements.

The Unisem (UNM) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and currently qualified as a high volume manufacturer for Intersil. There is no change in the MSL (moisture sensitivity level), manufacturing process flow or Bill of Materials.

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 results are included for reference. The remainder of the manufacturing operations (wafer fabrication) will continue to be processed to previously established conditions and systems.

The following summarizes the activities that were conducted in addition to the qualification results shown below to confirm there is no impact to product performance.

- Intersil test software and product specific hardware supplied to Unisem without modification.
- The equipment correlation plan involves the testing of golden (control) units and a correlation lot at the Unisem and current facility.
 - o Golden units are tested, their performance recorded, and the results analyzed to validate the set-up.
 - o A correlation lot will be tested at the current test site and retested at Unisem. The test results from each site will be compared.
 - o Continuous monitoring and comparison of the data from lots processed at multiple sites are an ongoing function of the responsible product engineers. Both packaged unit test results and wafer level test results are monitored.
- The visual/mechanical inspection and tape and reel operations are compliant to JEDEC industry standards used by all Intersil subcontractors.

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

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 facility (ASE Kaohsiung, Taiwan) or Unisem 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,



Jeff Touvell
Intersil Corporation

PCN13071

CC: D. Decrosta S. Nadarajah S. Ang F. Smith A. Vaughn P. Bianco R. Turner

PCN13071 – Unisem Reliability Qualification Results

Stress / Conditions	Duration	ISL9110S 20 Ball 4X5 WLCSP
Moisture Sensitivity Classification		N = 22 Acc = 0 L1 PBFREE
High Temperature Operating Life +125C	1000 Hrs	N = 78 Acc = 0
Biased HAST +130C / 85% RH	96 Hrs	N = 78 Acc = 0
Temp Cycle +125C / -40C	500 Cy	N = 78 Acc = 0
High Temperature Storage T _A = +150C	1000 Hrs	N = 78 Acc = 0

Qualification completed successfully

PCN13071 – Affected Products

ISL9110SIIAZ-T	ISL98607EIAZ-TR5576	ISL98607EIAZ-TR5616	ISL98607EIAZ-TS2724
ISL9110SIINZ-T	ISL98607EIAZ-TR5593	ISL98607EIAZ-TR5618	ISL98607EIAZ-TS2765
ISL98607AEIAZ-T	ISL98607EIAZ-TR5604	ISL98607EIAZ-TR5620	
ISL98607EIAZ-T	ISL98607EIAZ-TR5607	ISL98607EIAZ-TR5622	
ISL98607EIAZ-TR5574	ISL98607EIAZ-TR5608	ISL98607EIAZ-TS2722	