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# **PRODUCT CHANGE NOTICE**

**Product Improvement –  
Material Change for the Listed  
Intersil QFN Packaged  
Products**

**Refer to:  
PCN14057**

**Date: November 26, 2014**

November 26, 2014

To: Our Valued Intersil Customer

**Subject: Product Improvement – Material Change for the Listed Intersil QFN Packaged Products**

This notice is to inform you that Intersil has qualified a change that standardizes materials and the assembly process for the listed QFN (Quad Flat No-Lead) packaged products. The change implements the use of a higher quality mold compound (old: EG-100LA; new: G770HJ), which eliminates the need for under fill in the product. The change is necessary to maintain product manufacturability in support of customer delivery requirements.

Products affected:

ISL8200AMIRZ	ISL8200MIRZ-T	ISL8204MIRZ	ZL9117MAIRZ-T
ISL8200AMIRZ-T	ISL8200MIRZ-TR5545	ISL8204MIRZ-T	ZL9117MIRZ
ISL8200AMMREP	ISL8200MIRZ-TS2751	ISL8206MIRZ	ZL9117MIRZR5494
ISL8200AMMREP-T	ISL8200MMREP	ISL8206MIRZ-T	ZL9117MIRZ-T
ISL8200MIRYR5450	ISL8200MMREP-T	ZL9101MAIRZ	ZL9117MIRZ-TR5494
ISL8200MIRY-TR5450	ISL8201MIRYR5450	ZL9101MAIRZ-T	ZL9122MAIRZ
ISL8200MIRZ	ISL8201MIRY-TR5450	ZL9101MIRZ	ZL9122MAIRZ-T
ISL8200MIRZR5545	ISL8201MIRZ	ZL9101MIRZ-T	ZL9122MIRZ
ISL8200MIRZS2751	ISL8201MIRZ-T	ZL9117MAIRZ	ZL9122MIRZ-T

The qualification plan is designed using JEDEC and other applicable industry standards to confirm form, fit, function, and interchangeability of product. A summary of the qualification results are included for reference. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, etc.) will continue to be processed to previously established conditions and systems.

There will be no change in the external marking of the packaged parts or to the product data sheet electrical specification. Product affected by this change is identifiable via Intersil's internal traceability system.

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 manufactured with the changed materials 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,



Jeffrey R. Touvell  
Intersil Corporation

PCN14057

cc: M. Kwoka W. Rowe T. Linder G. Parker Y.W. Cheong C. Dunlap

# PCN14057 – Reliability Qualification Results

Stress / Conditions	Duration	ZL9117MIRZ	ISL8200MIRZ
		21 Lead 15x15 QFN	23 Lead 15x15 QFN
Moisture Sensitivity Classification		N = 66 Acc = 0 L3 PBFREE	N = 66 Acc = 0 L3 PBFREE
High Temperature Operating Life +125C	1000 Hrs	N = 80 Acc = 0	N = 84 Acc = 0
Temperature Humidity Bias +85C / 85% RH	1000 Hrs	N/A	N = 84 Acc = 0
Unbiased HAST +130C / 85% RH	96 Hrs	N = 80 Acc = 0	N/A
Pressure Cooker Test +121C / 100% RH	96 Hrs	N/A	N = 168 Acc = 0
Temp Cycle +125C / -40C	1000 Cy	N = 246 Acc = 0	N = 252 <sup>1</sup> Acc = 0
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N = 80 Acc = 0	N = 84 <sup>2</sup> Acc = 0

Note 1: TC performed at T<sub>A</sub> = +125C / -55C, 1000 cycles

Note 2: HTS performed at T<sub>A</sub> = 125C, 1000 hrs

Qualification Complete - Passed