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# **PRODUCT CHANGE NOTICE**

## **Alternate Manufacturing Facilities for Assembly of the Listed Intersil TQFN/QFN Packaged Products**

**Refer to:  
PCN14026**

**Date: April 29, 2014**

April 29, 2014

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Facilities for Assembly of the Listed Intersil TQFN/QFN Packaged Products – Carsem (CAS) - Ipoh, Malaysia**

This notice is to inform you that Intersil will begin using the Carsem (CAS) facility as an alternate site for assembly of the listed TQFN/QFN (Quad Flat No-Lead/Thin Quad Flat No-Lead) packaged products. The current facility STATS ChipPAC (SCM) located in Kuala Lumpur, Malaysia has officially announced plant closure by end of year 2014. The hyperlink to the announcement is <http://www.statschippac.com/news/newscenter/2013/news06282013.aspx>. As of the date of this notice, the product and site-specific qualification activities at the Carsem (CAS) facility is complete.

The Carsem (CAS) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified. CAS is qualified as primary supplier to Intersil for high volume assembly of TQFN/QFN packaged products. There is no change in the MSL (moisture sensitivity level) or POD (package outline drawing).

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. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, etc.) will continue to be processed to previously established conditions and systems.

Product affected by this change is identifiable via Intersil's internal traceability system. In addition, product assembled at CAS may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at CAS 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 Intersil products being supplied. Customers may expect to receive product assembled at either the SCM or CAS facilities 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

PCN14026

CC: D. Decrosta S. Ang D. Singh H. Singh P. Graves B. Sampath

# PCN14026 – Reliability Qualification Results

Stress / Conditions	Duration	HAA9Q-53091ZR5141 48 lead 7X7 QFN	ISL1536IRZ-T13 16 lead 4X4 QFN	ISL55143IRZ 36 lead 6X6 TQFN	ISL6522BIRZ-T 16 lead 5X5 QFN
Moisture Sensitivity Classification		N = 22 Acc = 0 L3 PBFREE	N = 22 Acc = 0 L3 PBFREE	N = 22 Acc = 0 L2 PBFREE	N = 22 Acc = 0 L3 PBFREE
Temperature/Humidity/Bias +85C / 85% RH	1000 Hrs	N/A	N/A	N = 45 Acc = 0	N/A
Unbiased HAST +130C / 85% RH	96 Hrs	N = 78 Acc = 0	N = 78 Acc = 0	N = 47 Acc = 0	N = 78 Acc = 0
Temp Cycle +150C / -65C	500 Cy	N = 78 Acc = 0	N = 78 Acc = 0	N = 47 <sup>1</sup> Acc = 0	N = 78 Acc = 0
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N = 78 Acc = 0	N = 78 Acc = 0	N = 45 Acc = 0	N = 78 Acc = 0

Stress / Conditions	Duration	ISL80101AIRAJZT 10 lead 3X3 DFN	ISL31486EIRTZ 12 lead 4X3 TDFN
Moisture Sensitivity Classification		N = 22 Acc = 0 L1 PBFREE	N/A
Temperature Humidity Bias +85C / 85% RH	1000 Hrs	N/A	N = 160 Acc = 0
Autoclave/PCT +121C / 100% RH	96 Hrs	N = 45 Acc = 0	N/A
Temp Cycle +150C / -65C	500 Cy	N = 45 Acc = 0	N/A
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N = 45 Acc = 0	N/A

1 - Temperature cycle +125°C to -40°C, 1000 cycles

Qualification Completed & Passed  
Qualification by Extension

## PCN14026 – Affected Products

HAA9Q-53091ZR5141	ISL1536IRZR5518	ISL6144IRZA-TS2705	ISL6522CRZ-TK
HAA9Q-53091ZR5141-T	ISL1536IRZ-T13R5518	ISL6522BIRZ-TS2462	ISL6522IRZ-TS2462
HAA9Q-53721ZR5141	ISL55210IRTZ-T7S2705	ISL6522BIRZ-TS2462S	ISL85403FRZ-TKR5632
HAA9Q-53721ZR5141-T	ISL6144IRZA	ISL6522CRZ	
HIP6604BCRZ-TS2705	ISL6144IRZA-T	ISL6522CRZ-T	