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# **PRODUCT CHANGE NOTICE**

**Alternate Manufacturing Site for  
Assembly of Intersil ISL62881C\* and  
ISL62884C\* TQFN Packaged  
Products**

**Refer to:  
PCN11036**

**Date: April 14, 2011**

April 14, 2011

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Site for Assembly of Intersil ISL62881C\* and ISL62884C\* TQFN Packaged Products** – *Advanced Semiconductor Engineering - Chung-Li, Taiwan (ASECL)*

This notice is to inform you that Intersil will begin using the Advanced Semiconductor Engineering (ASECL) facility as alternate site for assembly of the ISL62881C\* and ISL62884C\* TQFN (Thin Quad Flat No-Lead) packaged products. Products manufactured at the ASECL facility will be assembled using copper bond wire as an alternate to the gold wire currently used today. 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. The product and site-specific qualification activities are complete.

Products affected:

ISL62881CHRTZ	ISL62881CIRTZ-T	ISL62884CIRTZ
ISL62881CHRTZ-T	ISL62884CHRTZ	ISL62884CIRTZ-T
ISL62881CIRTZ	ISL62884CHRTZ-T	

The Advanced Semiconductor Engineering (ASECL) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and qualified as a supplier to Intersil for assembly of TQFN packaged products with both copper and gold bond wire material. There will be no change in the package outline drawing (POD). Products assembled with copper bond wire are classified as moisture sensitivity level three (MSL 3 at 260°C per J-STD-020). The qualified material set combinations for assembly are as follows:

Material	Current	ASECL
<b>Mold Compound</b>	Sumitomo EME-G770HCD	Sumitomo EME-G770HJ
<b>Die Attach</b>	Sumitomo CRM-1076NS	Hysol QMI 519
<b>Bond Wire</b>	1.0 mil Gold (Au)	1.0 mil Copper (CU) w/ Palladium (Pd) Coat

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 is included. 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.

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

Intersil will take all necessary actions to conform to 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 or the newly qualified sites beginning *ninety* days from the date of this notification or earlier with approval.

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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

PCN11036

CC: J. Touvell D. Decrosta R. Shaffer D. Foster S. Nadarajah B. Lee M. Kafi

## PCN11036 – Reliability Qualification Summary

Test Name	Product	Package	Precondition	Lots	Sample Size	Condition	Duration	Rejects
HAST MONITOR	ISL88731CHRTZ-T	28 LEAD 5X5 TQFN	L3 PBFREE	76	27,106	130C, 85%RH	48	0
HAST MONITOR	ISL88731CHRZT	28 LEAD 5X5 TQFN	L3 PBFREE	4	9,971	130C, 85%RH	96	0
HAST UNBIAS	ISL88731CHRZT	28 LEAD 5X5 TQFN	L3 PBFREE	1	240	130C, 85%RH	96	0
TEMP CYCLE	ISL88731CHRZT	28 LEAD 5X5 TQFN	L3 PBFREE	1	238	-40C TO 125C	1000	0
TEMP CYCLE	ISL88731CHRZT	28 LEAD 5X5 TQFN	L3 PBFREE	3	231	-65C TO 150C	500	0
MRT LEVEL 3	ISL88731CHRZT	28 LEAD 5X5 TQFN	L3 PBFREE	1	22	30C, 60%RH	192	0
MRT LEVEL 3	ISL62884CHRZT	28 LEAD 4X4 TQFN	L3 PBFREE	1	184	30C, 60%RH	192	0

Test Name	Product	Package	Precondition	Lots	Sample Size	Condition	Duration	Rejects
HAST MONITOR	ISL6267HRZ-T	48 LEAD 6X6 TQFN	L3 PBFREE	2	270	130C, 85%RH	48	0
HAST MONITOR	ISL6267HRZ-T	48 LEAD 6X6 TQFN	L3 PBFREE	3	12,386	130C, 85%RH	96	0
HAST UNBIAS	ISL6267HRZ	48 LEAD 6X6 TQFN	L3 PBFREE	1	78	130C, 85%RH	96	0
HTOL	ISL6267HRZ	48 LEAD 6X6 TQFN		1	76	125C	1000	0
TEMP CYCLE	ISL6267HRZ	48 LEAD 6X6 TQFN	L3 PBFREE	1	78	-40C TO 125C	1000	0
MRT LEVEL 3	ISL6267HRZ	48 LEAD 6X6 TQFN	L3 PBFREE	1	22	30C, 60%RH	192	0