

---

# **PRODUCT CHANGE NOTICE**

## **Manufacturing Site Change for Assembly of Intersil Ceramic Dual-In-Line (Frit Seal Cerdip) Products**

**Refer to:  
PCN11039**

**Date: April 8, 2011**

April 8, 2011

To: Our Valued Intersil Customer

Subject: **Manufacturing Site Change for Assembly of Intersil Ceramic Dual-In-Line (Frit Seal Cerdip) Products – Amkor (ATP) Muntinlupa City, Philippines**

This notice is to inform you that Intersil is qualifying the Amkor (ATP) facility for performing assembly of the listed Ceramic Dual-In-Line (Frit Seal Cerdip) products. This action will provide the capability and capacities for Intersil to meet customer's delivery requirements. The product and site-specific qualification activities are in progress and expected to complete during the next three months.

Products affected:

HA1-2420-2	HI1-0303-2	HI1-1818A-2	ID82C59A
HA1-4900-2	HI1-0390-2	HI1-5042-2	ID82C82
HA1-4902-2	HI1-0506-2	HI1-5043-2	ID82C86H
HA1-5104-2	HI1-0506A-2	HI1-5047-2	MD80C86-2/B
HA1-5320-2	HI1-0506A-8	HI1-5051-2	MD80C88/B
HA7-2520-2	HI1-0507-2	HM1-65642-9	MD82C37A/B
HA7-2640-2	HI1-0508-2	HS1-3282-8	MD82C52/B
HA7-5033R5389	HI1-0508A-8	ICM7218AIJI	MD82C54/B
HA7-5102-2	HI1-0509-2	ICM7218BIJI	MD82C55A/B
HA7-5147-2	HI1-0509A-2	ICM7218CIJI	MD82C59A/B
HD1-15530-8	HI1-0509A-8	ICM7218DIJI	MD82C84A/B
HD1-6408-9	HI1-0546-2	ID82C52	MD82C88/B
HI1-0201-2	HI1-0548-2	ID82C54	MD82C89/B
HI1-0201HS-2	HI1-0549-2	ID82C55A	

The Amkor (ATP) facility is ISO 9001:2008, TS 16949:2009, ISO 14001:2004, and currently listed as a QML Class Q certified assembly/test location. The ATP facility is currently Intersil qualified for performing assembly operations for various package styles. There will be no change to the POD (package outline drawing), bond wire material, seal glass, package body, package lid, lead frame, or final plating. The material set combinations for Ceramic Dual-In-Line (Frit Seal Cerdip) assembly are as follows:

Material	Current		ATP	
Die Attach	QMI 2419 (Ag Glass)	Gold Eutectic	QMI 3555 (Ag Glass)	Gold Eutectic
Bond Wire	1.25 mil Aluminum (Al)		1.25 mil Aluminum (Al)	
Seal Glass	KC800 / LS2010		KC800 / LS2010	

The assembly qualification plan is designed using MIL-PRF-38535, 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 plan 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 ATP may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at ATP is "L".

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 or the newly qualified sites 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,

*Jon Brewster*

Jon Brewster  
Intersil Corporation

PCN11039

CC: J. Touvell D. Decrosta D. Foster S. Nadarajah S. Ang L. Carpenter

# PCN11039 – Qualification Plan

Reliability Test	5962-8513101XA	5962-8688001QA	5962-8954801PA	7705202EA	M38510/24502BVA
	28 LEAD CERDIP - Silver Glass	40 LEAD CERDIP - Eutectic	8 LEAD CERDIP - Silver Glass	16 LEAD CERDIP - Silver Glass	18 LEAD CERDIP - Eutectic
Subgroup B1	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot
	Resistance to Solvents. MIL-PRF-38535 Group B Test Method 2015.	Resistance to Solvents. MIL-PRF-38535 Group B Test Method 2015	Resistance to Solvents. MIL-PRF-38535 Group B Test Method 2015.	Resistance to Solvents. MIL-PRF-38535 Group B Test Method 2015	Resistance to Solvents. MIL-PRF-38535 Group B Test Method 2015.
Subgroup B2	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot
	Die Shear Test or Stud Pull. MIL-PRF-38535 Group B Test Method 2019 or 2027	Die Shear Test or Stud Pull. MIL-PRF-38535 Group B Test Method 2019 or 2027	Die Shear Test or Stud Pull. MIL-PRF-38535 Group B Test Method 2019 or 2027	Die Shear Test or Stud Pull. MIL-PRF-38535 Group B Test Method 2019 or 2027	Die Shear Test or Stud Pull. MIL-PRF-38535 Group B Test Method 2019 or 2027
	ss=4 from 1 lot	ss=4 from 1 lot	ss=4 from 1 lot	ss=4 from 1 lot	ss=4 from 1 lot
	Wire Bond strength. MIL-PRF-38535 Group B Test Method 2011. 22 wires from 4 devices	Wire Bond strength. MIL-PRF-38535 Group B Test Method 2011. 22 wires from 4 devices	Wire Bond strength. MIL-PRF-38535 Group B Test Method 2011. 22 wires from 4 devices	Wire Bond strength. MIL-PRF-38535 Group B Test Method 2011. 22 wires from 4 devices	Wire Bond strength. MIL-PRF-38535 Group B Test Method 2011. 22 wires from 4 devices
Subgroup B3	ss=22 from 1 lot	ss=22 from 1 lot	ss=22 from 1 lot	ss=22 from 1 lot	ss=22 from 1 lot
	Solderability Lead Finish. MIL-PRF-38535 Group B Test Method 2003	Solderability Lead Finish. MIL-PRF-38535 Group B Test Method 2003.	Solderability Lead Finish. MIL-PRF-38535 Group B Test Method 2003.	Solderability Lead Finish. MIL-PRF-38535 Group B Test Method 2003	Solderability Lead Finish. MIL-PRF-38535 Group B Test Method 2003

## PCN11039 – Qualification Plan – cont.

Reliability Test	5962-8513101XA	5962-8688001QA	5962-8954801PA	7705202EA	M38510/24502BVA
	28 LEAD CERDIP - Silver Glass	40 LEAD CERDIP - Eutectic	8 LEAD CERDIP - Silver Glass	16 LEAD CERDIP - Silver Glass	18 LEAD CERDIP - Eutectic
Subgroup D1	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot
	a) Physical Dimensions	a) Physical Dimensions	a) Physical Dimensions	a) Physical Dimensions	a) Physical Dimensions
Subgroup D2	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot
	a) Lead Integrity	a) Lead Integrity	a) Lead Integrity	a) Lead Integrity	a) Lead Integrity
	b) Seal Test (Fine & Gross Leak)	b) Seal Test (Fine & Gross Leak)	b) Seal Test (Fine & Gross Leak)	b) Seal Test (Fine & Gross Leak)	b) Seal Test (Fine & Gross Leak)
Subgroup D3	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot
	a) Thermal Shock	a) Thermal Shock	a) Thermal Shock	a) Thermal Shock	a) Thermal Shock
	b) Temp Cycle (100)	b) Temp Cycle (100)	b) Temp Cycle (100)	b) Temp Cycle (100)	b) Temp Cycle (100)
	c) Moisture Resist	c) Moisture Resist	c) Moisture Resist	c) Moisture Resist	c) Moisture Resist
	d) Visual Inspection	d) Visual Inspection	d) Visual Inspection	d) Visual Inspection	d) Visual Inspection
	e) Seal Test (Fine & Gross Leak)	e) Seal Test (Fine & Gross Leak)	e) Seal Test (Fine & Gross Leak)	e) Seal Test (Fine & Gross Leak)	e) Seal Test (Fine & Gross Leak)
Subgroup D4	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot
	a) Mechanical Shock	a) Mechanical Shock	a) Mechanical Shock	a) Mechanical Shock	a) Mechanical Shock
	b) Vibration	b) Vibration	b) Vibration	b) Vibration	b) Vibration
	c) Constant Acc.	c) Constant Acc.	c) Constant Acc.	c) Constant Acc.	c) Constant Acc.
	d) Seal Test (Fine & Gross Leak)	d) Seal Test (Fine & Gross Leak)	d) Seal Test (Fine & Gross Leak)	d) Seal Test (Fine & Gross Leak)	d) Seal Test (Fine & Gross Leak)
	e) Visual Inspection	e) Visual Inspection	e) Visual Inspection	e) Visual Inspection	e) Visual Inspection
Subgroup D5	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot
	a) Salt Atmosphere	a) Salt Atmosphere	a) Salt Atmosphere	a) Salt Atmosphere	a) Salt Atmosphere
	b) Visual Inspection	b) Visual Inspection	b) Visual Inspection	b) Visual Inspection	b) Visual Inspection
	c) Seal Test (Fine & Gross Leak)	c) Seal Test (Fine & Gross Leak)	c) Seal Test (Fine & Gross Leak)	c) Seal Test (Fine & Gross Leak)	c) Seal Test (Fine & Gross Leak)
Subgroup D6	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot	ss=3 from 1 lot
	Internal Water Vapor	Internal Water Vapor	Internal Water Vapor	Internal Water Vapor	Internal Water Vapor
Subgroup D7	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot	ss=15 from 1 lot
	Adhesion of Lead Finish	Adhesion of Lead Finish	Adhesion of Lead Finish	Adhesion of Lead Finish	Adhesion of Lead Finish
Subgroup D8	ss=5 from 1 lot	ss=5 from 1 lot	ss=5 from 1 lot	ss=5 from 1 lot	ss=5 from 1 lot
	Lid Torque	Lid Torque	Lid Torque	Lid Torque	Lid Torque