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# **PRODUCT CHANGE NOTICE**

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

**Refer to:  
PCN11040**

**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.

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. Upon completion of qualification activities, customers may expect to receive product assembled at either the current or the newly qualified sites.

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  
Intersil Corporation

PCN11040

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

## PCN11040 – Products Affected

24502BVA	5962-9204201MEAS2035	HD1-6409/883
29104BJA	7705202EA	HI1-0201/883
5962-8501601YA	7705202EAS2035	HI1-0201HS/883
5962-8501602YA	7705202EAS2461	HI1-0303/883
5962-8513101XA	7705302EA	HI1-0508/883
5962-8513101XAS2035	7800302PA	HI1-0546/883
5962-8513102XA	7802901JA	HI1-0547/883
5962-8513102XAS2035	8001601CA	HI1-0548/883
5962-8513103EA	8100617EA/MLB	HI1-0549/883
5962-8513107XA	8403602JA	HI1-5046A/883
5962-8671601EA	8403603JA	HM1-6514/883
5962-8686001EA	8403606JA	HM1-6514B/883
5962-8688001QA	8405202QA	HM1-65162/883
5962-8757701RA	8406501JA	HM1-65162C/883
5962-8757702RA	8406602QA	HM1-6551B/883
5962-8778301EA	8406701RA	HM1-65642/883
5962-8778701CA	8406801VA	HM1-65642B/883
5962-8850201CA	8406901RA	JM38510/12202BPA
5962-8954801PA	8501501XA	JM38510/19001BXA
5962-8963501PA	DG411AK/883	JM38510/19002BXA
5962-8963601PA	HA1-2400/883	JM38510/19004BXA
5962-9051801MEA	HA1-4902/883	JM38510/19005BEA
5962-9052501MQA	HA1-5104/883	JM38510/19006BEA
5962-9052502MQA	HA7-2510/883	JM38510/19007BEA
5962-9054302MQA	HA7-2510/883S2035	JM38510/19008BEA
5962-9054901MQA	HA7-5101/883	MD80C86-2/883
5962-9073101MEA	HD1-4702/883	MD80C88-2/883
5962-9088801MRA	HD1-6402B/883	
5962-9204201MEA	HD1-6402R/883	

# PCN11040 – 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

## PCN11040 – 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)
	f) Electrical	f) Electrical	f) Electrical	f) Electrical	f) Electrical
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
	f) Electrical	f) Electrical	f) Electrical	f) Electrical	f) Electrical
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