
PRODUCT ADVISORY

Manufacturing Site Change for Assembly of Intersil Product HA1-4741/883

**Refer to:
PA11099**

Date: September 22, 2011

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To: Our Valued Intersil Customer

Subject: **Manufacturing Site Change for Assembly of Intersil Product HA1-4741/883 – Amkor (ATP) Muntinlupa City, Philippines**

This advisory is to inform you that Intersil is using the Amkor (ATP) facility for performing assembly of the HA1-4741/883 product. This action will provide the capability and capacities for Intersil to meet customer's delivery requirements. The product and site-specific qualification activities are complete.

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, including the Ceramic Dual-In-Line (Frit Seal Cerdip) used for assembly of the HA1-4741/883. 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 assembly are as follows:

Material	Current	ATP
Die Attach	QMI 2419 (Ag Glass)	QMI 3555 (Ag Glass)
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. The HA1-4741/883 product is considered QBE (Qualified By Extension) based on earlier qualification efforts conducted at the ATP facility. The qualification plan and results summary from those activities is included on the following pages. 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 site until depletion of existing inventory.

If you have concerns with this advisory, 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

PA11099

CC: J. Touvell D. Foster M. Carmody

PA11099 – 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				
	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				
	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				
	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				
	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

PA11099 – 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				
	a) Physical Dimensions				
Subgroup D2	ss=15 from 1 lot				
	a) Lead Integrity				
	b) Seal Test (Fine & Gross Leak)				
Subgroup D3	ss=15 from 1 lot				
	a) Thermal Shock				
	b) Temp Cycle (100)				
	c) Moisture Resist				
	d) Visual Inspection				
	e) Seal Test (Fine & Gross Leak)				
Subgroup D4	ss=15 from 1 lot				
	a) Mechanical Shock				
	b) Vibration				
	c) Constant Acc.				
	d) Seal Test (Fine & Gross Leak)				
	e) Visual Inspection				
Subgroup D5	ss=15 from 1 lot				
	a) Salt Atmosphere				
	b) Visual Inspection				
	c) Seal Test (Fine & Gross Leak)				
Subgroup D6	ss=3 from 1 lot				
	Internal Water Vapor				
Subgroup D7	ss=15 from 1 lot				
	Adhesion of Lead Finish				
Subgroup D8	ss=5 from 1 lot				
	Lid Torque				

PA11099 – Qualification Summary

Group	Pkg	D/A	ISIL P/N	B1	B2	B3	D1	D2	D3	D4	D5	D6	D7	Comments
1	8L Cerdip	Silver glass	5962- 8954801PA	pass	passed									
2	16L Cerdip	Silver Glass	HI1- 0548/883	pass	passed									
3	18L Cerdip	Gold Eutectic	HM1- 6514B/883	pass	passed									
4	28L Cerdip	Silver Glass	5962- 8513101XA	pass	passed									
5	40L Cerdip	Gold Eutectic	5962- 8688001QA	pass	passed									