



Title of Change:	Transfer of LQFP/ TQFP 7x7 to 12x12 mm body size with Matte tin lead finish to Amkor Philippines (P1) due to Amkor Korea (K1) Closure				
Proposed first ship date:	25 September 2015				
Contact information:	Contact your local ON Semiconductor Sales Office				
Samples:	Contact your local ON Semiconductor Sales Office				
Additional Reliability Data:	Contact your local ON Semiconductor Sales				
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <PCN.Support@onsemi.com>.				
Change Part Identification:	Affected products will be identified by date code following the Assembly location code of new site as 'L'.				
Change category(s):	<input type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change		<input checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Material Change		
			<input type="checkbox"/> Product specific change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____		
Sites Affected:	<u>Site 1</u>		<u>Site 2</u>		
<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input type="checkbox"/> ON Semiconductor site(s) : <input checked="" type="checkbox"/> External Foundry/Subcon site(s):	Amkor Technology Korea K1		Amkor Technology Philippines P1		
Description and Purpose:					
Amkor is closing the Korea K1 Plant per type of package. Assembly manufacturing operations for all Leadframe products now assembled in K1 will need to move to Philippines, P1 Plant.					
K1 bill of materials and process will be supported in P1 with the exception of the following item:					
➤ Lasermark process will be done after lead plating/ post plate bake for matte tin lead finish and trim process for NiPdAu lead finish.					
Summarize on the table below are the packages for transfer and its equivalent bill of materials:					
BOM for Matte tin Lead Finish	ATK1		ATP1		Remarks
Body Size	7x7 10x10	12x12	7x7 10x10	12x12	
Leadframe	VHDLF	HDLF	VHDLF	HDLF	No Change
Epoxy	3230	3230	3230	3230	No Change
Mold compound	G700L	G700L	G700L	G700L	No Change



Reliability Data Summary:

Qual Vehicle
OPICA-001

Test	Conditions	Interval	Results
Temperature Cycling (TC)	- 65°C to 150°C	500 cycles	0/240
High Temperature Storage (HTS)	150°	504, 1008 hrs	0/240
Unbiased Highly Accelerated Stress Test (UHAST)	130°C / 85% RH	96 hrs	0/240
Temperature Humidity Bias (THB)	85°C / 85% RH	96 hrs	0/240
High Temperature Operating Life (HTOL)	125°C	504, 1008 hrs	0/210

Qual Vehicle
20892-001

Test	Conditions	Interval	Results
Temperature Cycling (TC)	- 65°C to 150°C	500 cycles	0/240
High Temperature Bake	150°	504, 1008 hrs	0/240
Unbiased Highly Accelerated Stress Test (UHAST)	130°C / 85% RH	96 hrs	0/240
Temperature Humidity Bias (THB)	85°C / 85% RH	96 hrs	0/240
High Temperature Operating Life (HTOL)	125°C	504, 1008 hrs	0/210

For more details on the qualification and reliability result, please contact ONSEMI Sales Office.

Electrical Characteristic Summary:

Electrical characteristics are not impacted

List of affected Standard Parts:

A5191HRTLГ-XTD	AMIS-49200-XTD	LC898201TA-NH
A5191HRTLГ-XTP	AMIS-49200-XTP	LV8747TA-NH
ADM1026JSTZ-REEL	LC87F5864CUTG2H	