



## FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16872

Generic Copy

**Issue Date:** 03-Apr-2013

**TITLE:** Product transfer from Unisem to Atp1 LQFP 144L 20x20

**PROPOSED FIRST SHIP DATE:** 03-Jul-2013

**AFFECTED CHANGE CATEGORY(S):** Assembly materials

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or <Henry.Hernandez@onsemi.com>

**SAMPLES:** Contact your local ON Semiconductor Sales Office

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or <Phine.Guevarra@onsemi.com>

**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 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 <quality@onsemi.com>.

**DESCRIPTION AND PURPOSE:**

Assembly material comparison:

	Row Labels	Body size	Asy Part	Seal code	Remarks	BOM Unisem - existing					BOM Atp1 recommended				
						Leadframe	Epoxy	Wire	Mold Compound	Plating	Leadframe	Epoxy	Wire	Mold Compound	Plating
1	LQFP-144-XA	20 X 20	13505-523-ASY	G	ATP1 already qualified as alternate	7x7	CRM1076NS	1.0 mil Au	G700LX	Sn	5x5	AB 3230	1.0 mil Au	G700L	Sn
2	LQFP-144-XA	20 X 20	62268-001-ASY	G	For transfer to Atp1	7x7	CRM1076NS	1.0 mil Au	G700LX	Sn	5x5	AB 3230	1.0 mil Au	G700L	Sn
3	LQFP-144-XA	20 X 20	62022-001-ASY	Y	For transfer to Atp1 using device #62022-002	7x7	CRM1076NS	1.0 mil Au	G700LX	SnPb	5x5	AB 3230	1.0 mil Au	G700L	Sn

Purpose of this change is to qualify Atp1 due to LQFP package is already discontinued in Unisem.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 000024****RELIABILITY DATA SUMMARY/ ELECTRICAL CHARACTERISTIC SUMMARY:****Reliability Test Results:**

Test	Sample size	Failures Observed	Failures Allowed	Remarks
MOISTURE RESISTANCE TEST	77	0	0	PASSED
THERMO-MECHANICAL TEST	77	0	0	PASSED
X-RAY INSPECTION	15	0	0	PASSED
INTERNAL VISUAL	5	0	0	PASSED

Note: This is just verification build since LQFP package already qualified in Atp1 with the same bill of materials used.

**List of affected Customer Specific Parts:**

<b>MPN impact list</b> (Custom Parts / ASICs)
13505-523-XTD
62022-001-XTD
62268-001-XTD