

PCN Number: 20160609002 **PCN Date:** 06/13/2016

Title: Qualification of DMOS6 for LP8758A1B0YFFR

Customer Contact: [PCN Manager](#) **Dept:** Quality Services

Proposed 1st Ship Date: 09/13/2016 **Estimated Sample Availability:** Date provided at sample request.

Change Type:		
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>
<input type="checkbox"/>	Design	<input type="checkbox"/>
<input type="checkbox"/>	Test Site	<input type="checkbox"/>
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>
<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>
<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>
<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>
<input type="checkbox"/>	Part number change	<input type="checkbox"/>

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of its DMOS6 fabrication facility as an additional wafer FAB source for LP8758A1B0YFFR.

Current Sites			Additional Sites		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
RFAB	LBC8LV	300 mm	DMOS6	LBC8LV	300 mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Continuity of Supply



Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Current			
Chip Sites	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
RFAB	RFB	USA	Richardson
New			
Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
DMOS6	DM6	USA	Dallas

Sample product shipping label (not actual product label)

 <p>TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 20</p>		<p>(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P) (1P) REV: (1) 0033317 (20L) CSO: SHE (21L) CCO: USA (22) ASD: NLA (23L) ACO: MYS</p>
<p>MSL 2 / 260C / 1 YEAR SEAL DT MSL 1 / 235C / UNLIM 03/29/04</p> <p>OPT: ITEM: 39 LBL: 5A (L)T0:1750</p>		

Product Affected:

LP8758A1B0YFFR

Qualification Report

LP8758 (Valdemar A1) Product Transfer to DMOS6 Qualification - LBC8LV process at DMOS6 / Assembled in a 35 bump, 0.4mm BOP-COA WCSP in Clark
Approved 06/08/2016

Product Attributes

Attributes	Qual Device: LP8758A1B0YFFR
Assembly Site	CLARK AT
Package Family	DSBGA
Wafer Fab Site	DMOS6
Wafer Fab Process	LBC8LV

- QBS: Qual By Similarity
- Qual Device LP8758A1B0YFFR is qualified at LEVEL1-260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: LP8758A1B0YFFR
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	3/225/0
AC	Autoclave 121C	96 Hours	3/231/0
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0
HTOL	Life Test, 125C	1000 Hours	3/231/0
HTSL	High Temp Storage Bake 150C	1000 Hours	3/231/0
HBM	ESD - HBM	2500 V	3/9/0
CDM	ESD - CDM	1500 V	3/9/0
LU	Latch-up	(per JESD78) 25C	3/18/0
LU	Latch-up	(per JESD78) 85C	3/18/0
LU	Latch-up	(per JESD78) 125C	3/18/0
ED	Electrical Characterization	Per Datasheet Parameters	3/Pass
MQ	Manufacturability (Assembly)	(per mfg site specification)	Pass
MQ	Manufacturability (Fab)	(per mfg site specification)	Pass
WLR	Wafer Level Reliability	(per mfg site specification)	Pass

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles
Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:
Qualified Pb-Free(SMT) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below, or you can contact your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com