

PCN Number:	20211208000.1	PCN Date:	December 13, 2021
Title:	Qualification of DMOS6 as an additional Fab site option for select LBC8 devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Mar13, 2022	Estimated Sample Availability:	Date provided at sample request.
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Mechanical Specification
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Packing/Shipping/Labeling
		<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change

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 the selected devices listed in the "Product Affected" section.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter
RFAB	LBC8	300mm	DMOS6	LBC8	300mm

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:

Fab Site Information:

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

Sample product shipping label (not actual product label)

TEXAS INSTRUMENTS
 MADE IN: Malaysia
 2DC: 20:
 MSL 2 / 260C / 1 YEAR SEAL DT
 MSL 1 / 235C / UNLIM 03/29/04
 OPT: 39
 ITEM: 39
LBL: 5A (L)T0:1750

(1P) SN74LS07NSR
 (Q) 2000 (D) 0336
 (31T) LOT: 3959047MLA
 (4W) TKY (1T) 7523483SI2
 (P)
 (2P) REV: (V) 0033317
 (20L) CSO: SHE (21L) CCO: USA
 (22L) ASO: MLA (23L) ACO: MYS

Product Affected:

LP8758A2B4YFFR	LP8758A2E2YFFR	LP8758A2EAYFFR	LP8758A2F0YFFR
LP8758A2C5YFFR	LP8758A2E3YFFR		

Qualification Report

Approve Date 30-Jun-2016

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: P8758A2EAYFFR	QBS Product Reference: P8758A1YFFR	QBS Process Reference: TAS2555YZ	QBS Process Reference: TAS2553YFF
AC	Autoclave 121C	96/hrs @ 121C	-	3/231/0	-	-
HTOL	Life Test 125C	1000 Hours	-	3/231/0	3/231/0	3/231/0
HTSL	High Temp Storage Bake 150C	1000/hrs @ 150C	-	3/231/0	-	-
TC	Temperature Cycle -55/125	700 Cycles	-	3/231/0	3/231/0	-
THB	Biased Temperature and Humidity, 85C/85%RH	1000/hrs @85C/85%	-	3/231/0	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-	3/3000/0
HBM	ESD - HBM	2500 V	1/3/0	-	-	-
CDM	ESD - CDM	1000 V	1/3/0	-	-	-
LU	Latch-up	(per JESD78) 25C	1/6/0	-	-	-
LU	Latch-up	(per JESD78) 85C	1/6/0	-	-	-
LU	Latch-up	(per JESD78) 125C	1/6/0	-	-	-
ED	Electrical Characterization	Per Datasheet Limits	1/Pass	-	-	-
SBS	Bump Shear	-	-	-	3/108/0	-

- QBS: Qual By Similarity. Product Family is qualified at LEVEL2-260C

- 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

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