			190424001.1						Date:	Apr 29, 2019	
Title: Qualification of DMOS6 as an additional Wafer Fab Site option for select devices in LBC8 Technology											
Customer	Conta	ct:	PCI	N Manage	<u>r</u>		ept:			lity Services	
Proposed 1 st Ship Date:			Jul 29, 2019			Estimated Sample Availability:				Date provided at sample request.	
Change Ty	уре:										
Assem	nbly Site	е	Assembly Process					Assembly Materials			
Design			Electrical Spe					Mechanical Specification			
Test S			Packing/Ship						Test Process		
	Bump !		Щ	Wafer E			Щ	Wafer Bump Process			
	Fab Sit	e		Wafer F					Wafer Fab Process		
				Part nu							
PCN Details											
Description											
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 "Product Affected" section.											
	C	Current Sit	es				Additional Sites				
	Current Process Fab Site			Wafer Diameter		Additiona Fab Site	I	Pro	cess	Wafer Diameter	
RFAB	RFAB LBC8			300mm		DMOS6	DMOS6 LBC		SC8	200mm	
Qual details are provided in the Qual Data Section.											
Reason fo	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 Site		Chip Site	Chip Site Origin (20L)		Chip	Chip Site Country Code (21L)) Chip	Chip Site City	
RFAI	RFAB R		RFB			USA				Richardson	
New Fab Site											
Chip Site		Chip Site	Origi	in (20L)	Chip	Site Country	Code	(21L) Chip	Site City	
DMOS	56		OM6			USA				Dallas	
Sample product shipping label (not actual product label) TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2Q: MSL '2 /260C/1 YEAR SEAL DT MSL 1 /235C/UNLIM 03/29/04 OPT: ITEM: LBL: 5A (L) T0: 1750 (1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483\$I2 (P) (2P) REV: (20L) CSO: SHE (21L) CCO: USA (23L) ACO: MYS											
Product Affected Group:											
AFE4420YZ			4420	YZT							

Qualification Report

Approve Date 22-Mar-2019

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

Туре	Test Name / Condition	Duration	Qual Device: <u>AFE4420YZR</u>	QBS Product Reference: <u>AFE4420YZR</u>	QBS Process Reference: CD3700A0YKHR	QBS Process Reference: CD3700A0YKHR	QBS Process Reference: PCD3258A00DYFPR (DM6/JCAP)	QBS Package Reference: <u>LM3566YFFR</u>
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	-	3/90/0	-	3/90/0
CDM	ESD - CDM	1000 V	-	-	2/6/0	1/3/0	1/3/0	-
CDM	ESD - CDM	1500 V	-	1/3/0	-	-	-	3/9/0
HBM	ESD - HBM	1500 V	1/3/0	1/3/0	-	-	-	-
HBM	ESD - HBM	2500 V	-	-	2/6/0	1/3/0	1/3/0	3/9/0
LU	Latch-up	(per JESD78)	-	1/6/0	-	-	-	-
HTOL	Life Test, 140C	480 Hours	-	-	2/154/0	4/180/0	-	-
HTOL	Life Test, 150C	500 Hours	1/77/0	1/77/0	-	-	-	-
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	1/77/0	1/77/0	1/77/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	-	-	-	3/164/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	-	-	1/77/0	1/77/0	-	2/231/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	1/77/0	1/77/0	-	3/231/0
TC	Temperature Cycle, - 65/150C	500 Cycles	-	-	-	-	-	3/231/0
TC	Temperature Cycle, - 55/125C	700 Cycles	-	-	1/77/0	1/77/0	-	-
PD	Physical Dimensions	(per mechanical drawing)	-	-	1/30/0	1/20/0	-	-
SBS	Bump-shear	36 bumps / min 5 units per lot	-	-	1/30/0	1/5/0	-	-
SD	Pb Free Surface Mount Solderability	Pb Free/Solder-	-	-	-	1/22/0	-	-

- QBS: Qual By Similarity
- Qual Device AFE4420YZR is qualified at LEVEL1-260C
- 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

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
WW PCN Team	PCN www admin_team@list.ti.com