PCN Number: 2018			180130000-001			PCN Date:			Jan 31, 2018
Title:	Wafer Diamet	er Ch	nange for Select Devices in the LBC3S Process at DL-LIN						
Custom	er Contact:		<u>PCN</u>	l Manager		Dept:			Quality Services
Proposed 1 st Ship Date:			Jul	31, 2018	Estimated Sample Availability:			le	Date provided at sample request.
Change Type:									
Ass	embly Site		Assembly Process				Assembly Materials		
Des	sign		☐ Electrical Specification				Mechanical Specification		
Tes	t Site		Packing/Shipping/Labeling					Tes	st Process
☐ Wafer Bump Site			Wafer Bump Material					Wa	ifer Bump Process
☐ Wafer Fab Site			Wafer Fab Materials				\boxtimes	Wa	ifer Fab Process
				Part number change					
PCN Details									

Description of Change:

This change notification is to announce a <u>wafer diameter change only</u> for select devices in the LBC3S process at DL-LIN. This is not a fab site change.

Current	New
Site/Process/Wafer Diameter	Site/Process/Wafer Diameter
DL-LIN/LBC3S Process/150mm	DL-LIN/LBC3S Process/200mm

DL-LIN was qualified to process 200mm wafers in Feb 2000. See attached qualification reports.

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:

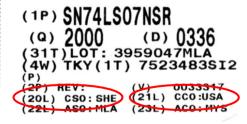
Note: This is <u>not a Fab site change</u>. The 6" line and 8" line are in the same location.

DL-LIN	DLN	USA	Dallas
	(20L)		
Chip Site	Chip site code	Chip country code (21L)	Chip Site City

Sample Product Shipping Label (not actual product label)







Product Affected:			
TLC2252AQDREP	TLV2252AQDREP	UCC27424MDGNREP	V62/07624-01XE
TLC2254AQDREP	TLV2254AQDREP		

Qualification Report

Conversion of select devices from 150mm wafers to 200mm wafers in DFAB Approve Date 05-Nov-2015

Product Attributes

Attributes	Qual Device: SN65HVD1176D	Qual Device: SN65HVD22P	Qual Device: SN65HVD234D	Qual Device: TLC085AIPWP	Qual Device: TLV2252ID	Qual Device: TLV2254IN	Qual Device: TLV2262ID	Qual Device: TLV2372IDGK	Qual Device: TLV2463IDGS	Qual Device: UCC27424D	QBS Process Reference: SN104605PN
Assembly Site	FMX	FMX	FMX	TAI	FMX	FMX	FMX	HNT	-	FMX	TAI
Package Family	SOIC	PDIP	SOIC	HTSSOP	SOIC	PDIP	SOIC	MSOP	MSOP	SOIC	LQFP
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	DFAB	DFAB	DFAB	DFAB	DFAB	DFAB	DFAB	DFAB	DFAB	DFAB	DFAB
Wafer Process	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S	LBC3S

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL1-260C: SN65HVD1176D, SN65HVD234D, TLV2372IDGK, TLV2262ID, TLV2252ID, UCC27424D, TLV2463IDGS,
 Qual Devices qualified at Not Classified: SN65HVD22P, TLV2254IN
 Qual Device TLC085AIPWP is qualified at LEVEL2-260C

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: SN65HVD1176D	Qual Device: SN65HVD22P	Qual Device: SN65HVD234D	Qual Device: TLC085AIPWP	Qual Device: TLV2252ID	Qual Device: TLV2254IN	Qual Device: TLV2262ID	Qual Device: TLV2372IDGK	Qual Device: TLV2463IDGS	Qual Device: UCC27424D	QBS Process Reference: SN104605PN
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	-
HAST	Biased Hast, 130C/85%RH	96 Hours	-	-		-	-	-	-	-	-	-	3/231/0
HBM	ESD-HBM	2500 V	-	-	-		1/3/0	1/3/0	-	-	-	-	-
HBM	ESD-HBM	3000 V	-	-	-	1/3/0	-	-	1/3/0	-	-	-	
HBM	ESD-HBM	4000 V	1/3/0	-	1/3/0	-	-	-	-	1/3/0	1/3/0	1/3/0	-
HBM	ESD-HBM	5000 V	-	1/3/0	-	-	-	-	-	-	-	-	-
HBM	ESD - HBM (Bus & Ground pins)	10000V	1/3/0	-	-	-	-	-	-	-	-	-	-
HBM	ESD - HBM (Pin 7, 6 and gnd)	16000 V	-	1/3/0	1/3/0	-	-	-	-	-	-	-	-
CDM	ESD-CDM	1500 V	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	-
HTOL	Life Test 155C	1000 Hours	-	-	-	-	-	-	-	-	-	-	3/231/0
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	-
TS	Thermal Shock, -65/150C	500 Cycles	-	-	-	-	-	-	-	-	-	-	3/231/0
WBP	Bond Pull	Wires	1/76/0	1/76/0	1/76/0	1/76/0	1/76/0	1/76/0	1/76/0	-	-	1/76/0	3/228/0
WBS	Ball Bond Shear	Wires	1/76/0	1/76/0	1/76/0	1/76/0	1/76/0	1/76/0	1/76/0	-	-	1/76/0	-

- WBS Ball Bond Shear Wires 1/76/0 1/76

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





Qualification Report For TLC2264 on 200mm Wafers in DFAB 09/24/2007

The TLC2264 on 200mm Wafers in DFAB is fully qualified and meets the Texas Instruments quality and reliability standards for Analog & Mixed Signal Products per the testing described below.

Qualification Description

Qualified product in qualified wafer size Product Group: HPA/ PA. PA LINEAR

Product Qualification Reference (QBS): TLC2264

Process Qualification Reference (QBS): DFAB LBC3S 200mm

Device Attributes

Product & Pro	cess Related	Package Related				
Qualification Device:	TLC2264CN	Wafer Fab Site	DFAB			
Die Name:	CLBDLBC2264ABC	Wafer Fab Process:	LBC3S			
Die Revision:						

Reliability Test Results						
Tost Type	Conditions/Duration	Sample Size/Results				
Test Type	Conditions/Duration	Lot#1				
Electrical Characterization		Complete				
Manufacturability Qualification (Wafer Fab)		Approved				
Preconditioning Information: ** Preconditioning sequence: N/A						

Qualification Data: Qualification of the DFAB 200mm LBC3S Process 02/22/2000

This qualification has been specifically developed for the validation of this change. The

qualification data validates that the proposed change meets the applicable released technical							
specifications. Qualification Device Construction Details:							
					TAI		
Die Name:)104605CGW	Assemb				
Die Size (mils)	1	30 x 244	Pins/Pa		80/P		
Wafer Fab Site:		DFAB	Mold Com	pound:	HIT MC	606	
Technology:	Lin	BiCMOS-3S	Die	Mount:	HIT EN-408	85S2K3	
1st Metal:	TiW	/AlSiCu.5%	Bon	d Wire:	1.0 mil A	u, TS	
2nd Metal:	TiW	/AISiCu.5%	L/F M	aterial:	Copp	er	
Passivation:		10KA CN	L/F	Finish:	Palladi	um	
Qualification: Plan		t Results					
					Sample Size		
Reliability Test	Conditions		()			
			Lot 1	Lot 2	Lot 3		
*	155C, 240 Hr	116/0	116/0	116/0			
	155C, 240 Hrs	116/0	116/0	116/0			
*Bias	ed HAST	130C,85%RF	77/0	77/0	77/0		
*Therm	al Shock	-65/+150C,	77/0	77/0	77/0		
	ESD	100pF,1500 Oh	3/0	3/0	3/0		
		100pF,1500 Oh	3/0	3/0	3/0		
		200pF,0 Ohn	3/0	3/0	3/0		
		CDM, 50	3/0	3/0	3/0		
Electrical Charact	erization			50	50	50	
Bond			76/0	76/0	76/0		
D			5/0	5/0	5/0		
Manufacturability (Wa	Per site spec	Passed					
Manufacturability (Assem	bly Site)	Per site specification			Passed		
*Preconditioning Required: JEDEC A113							

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.

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USA	PCNAmericasContact@list.ti.com
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