PCN Number:		201	4092	26001	0001 PCN Date: 09/29/2014					14		
Title: Qualification of DFAB as an Additional Fab Site Option for TLC5928PWPxx devices												
Customer Contact: PC		PCN /	PCN Manager Phone:		e:	+1(214)480-6037	37 Dept: Quality Ser		ality Servic	es		
*Proposed 1 st Ship Da		te:				timated Sample vailability:		Date Provided at Sample request				
Change Type:												
Assem			_	embly						Materials		
Design			Щ		Electrical Specification				ion			
Test S			Щ	_			ipping/Labeling					
	Bump Site		Щ				Material	Щ	_		np Process	
<u> </u>	Fab Site		Щ		fer Fab	_			Wafer Fab Process			
	Part number change											
PCN Details												
Description of Change:												
This change notification is to announce the qualification of DFAB as an additional fab site option for TLC5928PWPxx devices. These devices are listed in "Product Affected" section.												
Current Fabs							New (Qualified) Fa					
Site, process, wafer dia.							Site, process, wafe	er	dia.			
CFAB, LBC4, 150mm						DFAB, LBC4, 200m	ım					
The LBC4 process is mature and has been successfully running in production since 2001. Qualification details are provided in the Qual Data Section.												
Process/Site Qualification						Qualification Date						
LBC4 Process/DFAB						2/23/2001						
Reason for Change:												
Continuity of Supply.												
Anticipate	ed impact on	Forn	n, Fi	t, Fu	nction	, Q	uality or Reliabili	ty	(positiv	re /	negative)) :
None												

Changes to product identification resulting from this PCN:

Current

Chip Site	Chip site code (20L)	Chip country code (21L)			
CFAB	CU3	CHN			
HU-BIP-4	HOU	USA			

New

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

Sample product shipping label (not actual product label)



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Product Affected:								
TLC5928PWP	TLC5928PWPR	TLC5928PWPRG4						

LBC4 Process Qualification

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

validate that the proposed change meets the applicable released technical specifications.							
Qual Vehicle: SN104969VFP							
Wafer Fab Site: DFAB		Wafer Fab Process: LBC4		LBC4			
Wafer Fab Process: LBC4		Wafer Diameter: 200mm					
Qualification:	lification: 🔲 Plan 🔀 Tes						
Reliability Test		Conditions			Sample Size/Fails Lot#1 Lot#2 Lot#3		
**Life Test		155C (240hrs)		116/0	116/0	116/0
**Biased HAST		130C/85%RH (96 Hrs)			77/0	77/0	77/0
**Autoclave 121C		121C, (96 Hrs)			77/0	77/0	77/0
**Thermal Shock		-65/+150C (500 Cycles)			77/0	77/0	77/0
ESD HBM		2000V			3/0	-	-
ESD CDM		1500V			3/0	-	-
Electrical Characteriz	ation	-			Pass	Pass	Pass
Latch-up		(per JESD78)			6/0	6/0	6/0
Manufacturability (Wafe	er Fab)	Per site spec			Approved	-	-
Manufacturability (Asse	embly)	(per mfg. Site specification)			Approved	-	-
X-Ray		Top View Only			5/0	5/0	5/0
Visual/Mechanical					Pass	Pass	Pass
**High Temp. Storage	Bake	170C (420 Hrs)			45/0	45/0	45/0
**Preconditioning: Level 2-260C							

Qual Vehicle: TPS54671/ TPS79733								
Wafer Fab Site: DFAB			Wafer Fab Process:	LBC4				
Wafer Fab Process: LBC4		Wafer Diameter: 200mm						
Qualification:	Plan		t Results					
Reliability Test		Conditions			Sample Size/Fails			
Reliability Test		Conditions		Lot#1	Lot#2	Lot#3		
**Life Test		155C (240hrs)			116/0	116/0	116/0	
**Thermal Shock		-65/+150C (500 Cycles)			77/0	77/0	-	
ESD HBM		2000V			3/0	3/0	3/0	
ESD CDM		1000V			3/0	3/0	3/0	
Electrical Characterization		-		Pass	Pass	Pass		
Bond Strength				76/0	76/0	76/0		
Die Shear				5/0	5/0	5/0		
Latch-up		(per JESD78)			5/0	5/0	5/0	
Manufacturability (Wafer Fab)		Per site spec			Approved	-	-	
Manufacturability (Assembly)		(per mfg. Site specification)			Approved	-	-	
Wafer Level Reliability				Approved	-	-		
**Preconditioning: Level 1-235C								

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or 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