PCN Num	ber:	2	2017	0828	3002			PCN I	Date	:	Aua	31, 201	7
				AB as additional Fab site option 1				3 ,					
Customer Contact:				PCN Manager							1	Quality Services	
Customer Contact:					•					ما	_	Date provided at	
Proposed 1 st Ship Date:			1	Dec	1, 2017							iple requ	
Change Ty	vpe:						///unub	iii cy i			bull		
Change Type: Assembly Site			<u></u> г	Assembly Process Assembly Materials				ials					
Desigi				Electrical Specification				Mechanical Specification					
Test Site				Packing/Shipping/Labeling					Test Process				
	Bump	Site		Wafer Bump Material					Wafer Bump Process			ocess	
	Fab Sit			Wafer Fab Materials Wafer Fab Process									
			[Part number change									
PCN Details													
Descriptio	on of C	hange:			-								
			ed to	anr	nounce the qu	alifica	ation of its	s FFA	B fal	orica	tion 1	facility a	s an
additional	Wafer F	ab source	e for	the	selected devi	ces lis	sted in the	e "Pro	duct	t Affe	ected	" sectior	۱.
	Cu	rrent Fa	b Sit	е				Additional Fab Site					
Current		Proces	SS		Wafer		litional		Proc	ess		Wat	
Site					Diameter		b Site					Diam	
RFAB	3	LBC7	1		300 mm		FFAB		LB	C7		200 mm	
	Qual details are provided in the Qual Data Section.												
Reason fo	or Chan	ige:											
Continuity	of Supp	oly											
Anticipate	ed imp	act on Fo	orm,	Fit,	Function, Q	ualit	v or Relia	abilit	v (p	osit	ive /	' negati	ve):
None					, ,				<u> </u>			-	
						_							
Changes t	o prod	luct iden	tifica	atio	n resulting f	from	this PCN						
Current:										<i></i>			
			lite O	e Origin Code (20L)			p Site Cou		Cod	e (2	1L)		
RFA	B			RFB				USA				Richa	irdson
	-··												
New Fab		Chin C			- Code (201)	Chi			Cod	- (2)	11.	Chin C	ite City
New Chi	•	Chip S	site U		n Code (20L)	Chi	p Site Co		Coa	e (2.	IL)		ite City ising
FR-BI	P-1			TIC)			DEU				Frei	sing
							N						
Sample pro	bauct si	nipping la	bel (I	not a	actual produc	t labe	1)						
TEX/			(Ph)		0823¥511	1 6	A		~	~ ~			
INSTRUM	IENTS		G4				1P) SN7	4LS	U/N	SK			
MADE IN: Malaysia 2DC: 20: (Q) 2000 (D) 0336													
MSL 2 /260C/1 YEAR SEAL DT ROLL (31T)LOT: 3959047MLA MSL 1 /235C/UNLIM 03/29/04 DEC (4W) TKY(1T) 7523483SI2													
OPT: (P)													
ITEM: 39 (2P) REV: (V) 0033317													
LBL: 5A (L)T0:1750													
Product Affected:													
			PA31	3136D2PWPR TPA3137D2PWP TPA3137D2PWPR				2					
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1120DSLMLIX ILW2121							<u>` </u>		
TPA3136D	22002												

Qualification Report

LBC7 G2PA3136D2A0 offload from RFAB to FFAB

Approve Date 02-Aug-2017

Product Attributes

Attributes	Qual Device: TPA3137D2PWP	QBS Process Reference: TCA6416PW		
Assembly Site	TAI	MLA		
Package Family	HTSSOP	TSSOP		
Flammability Rating	UL 94 V-0	UL 94 V 0		
Wafer Fab Supplier	FFAB	FFAB		
Wafer Fab Process	LBC7	LBC7		

- QBS: Qual By Similarity
 - Qual Device TPA3137D2PWP is qualified at LEVEL3-260C

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: TPA3137D2PWP	QBS Process Reference: TCA6416PW			
AC	Autoclave 121C	96 Hours	-	3/231/0			
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass			
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0			
HBM	ESD - HBM	4000 V	1/3/0	-			
CDM	ESD - CDM	1500 V	1/3/0	1/3/0			
HTOL	Life Test, 150C	300 Hours	-	3/231/0			
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/231/0			
LU	Latch-up	(per JESD78)	-	1/9/0			
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0			
WBP	Bond Pull	Wires	1/76/0	-			
WBS	Ball Bond Shear	Wires	1/76/0	-			

- 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