PCN Number: 20201204000.1 PCN Date: Dec. 4, 2							te: Dec. 4, 2020						
Title	Title: Qualification of CDAT as an alternate AT site for Select Devices												
Cus	Customer Contact:			N Mana	ger	Dept	:: <u> </u>	Quality Services					
Pro	posed 1 st Shi		ip Date:	p Date: Ma		r. 4, 2021		Estimated Samp		·			
Availability: Sample request								sample request					
Change Type: ☐ Assembly Site ☐ Design ☐ Wafer Bump Site									Rumn Site				
H		mbly Site mbly Process			+	Design Data Sheet				Wafer Bump Material			
H		mbly Ma					Part number change			Wafer Bump Process			
H			pecificati	on	+		t Site				Fab Site		
H				ng/Labeling			st Process			Wafer Fab Materials			
	Tucki	ng/omp	pirig/ Lub	ciiig		_ rest	110003				fer Fab Process		
						PC	N Det	ails		uici	1 45 1 100055		
Des	cripti	on of C	hange:										
for t	Texas Instruments Incorporated is announcing the qualification of CDAT as an additional AT site for the list of devices shown below. There are no construction differences between the two sites.												
Rea	son f	or Char	nge:										
Sup	ply co	ntinuity											
Ant	icipat	ed imp	act on F	orm,	Fit, F	unctio	n, Qua	ity or Rel	iability (posit	tive / negative):		
Non	None												
			act on N	1ateri	al De	clarat	ion						
No Impact to the Material Declaration					Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp					ollowing the e the revised w			
Cha	nges	to prod	duct ide	ntifica	ation	result	ing fro	n this PCI	V:				
Assembly Site		Assembly Site Origin (22			(22L)	Assembl	ssembly Country Code (23L)			Assembly City			
CLARK		RK	QAB			PHL				Angeles City, Pampang			
CDAT			CDA					CHN			Chengdu		
IN MAD 2DO MSL MSL OPT ITE	TEXA STRUM DE IN: 2 /26 1 /23	AS IENTS Malaysia 20: 00C/1 YEA 55C/UNLIM	R SEAL DT		(not a	actual ((1P) ((Q) ((31T) (4W) T (P) (2P) RE (20L)	N74L\$07N 2000 (LOT: 3959 KY(1T) 75 V: (V) SO: SHE (21	D) 0336				

Product Affected:								
BQ771802DPJR	BQ771803DPJR	BQ771809DPJR	BQ771817DPJR					
BQ771802DPJT	BQ771803DPJT	BQ771809DPJT	BQ771817DPJT					



TI Information tive Disclosure

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

Туре	Test Name / Condition	Duration	Qual Device: BQ771802DPJ	Qual Device: BQ771809DPJ	Qual Device: BQ771817DPJ	QBS Product Reference: BQ771800DPJ	QBS Process Reference: TPS51217DSC	QBS Package Reference: BQ771811DPJ
-	Manufacturability (TQ - Testability)			1/Pass	1/Pass	-	-	1/Pass
AC	Autoclave 121C	96 hours	-	-	-	1/77/0	3/231/0	3/231/0
CDM	ESD - CDM	1500 V	-	-	-	-	3/9/0	-
DS	Die Shear	QSS 009-009	-	-	-	-	-	3/30/0
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	1/Pass	3/60/0	1/Pass
HAST	Biased HAST 130C/85%RH	96 Hours	-	-	-	-	3/231/0	-
HBM	ESD - HBM	2000 V	-	-	-	=	3/9/0	-
HTSL	High Temp Storage Bake, 170C	420 Hours	-	-	=	=	3/231/0	-
LU	Latch-up	(per JESD78)	-	-	-	1/6/0	3/18/0	1/6/0
MSL	Thermal Path Integrity, JEDEC, L2	(MSL 2 / 260C)	-	-	-	-	-	3/36/0
PD	Physical Dimensions	(per mechanical drawing)	-	-	-	-	-	3/15/0
SD	Solderability	Steam age, 8 hours; PB- Free solder	-	-	-	=	-	3/66/0
TC	Temperature Cycle - 65/150C			-	-	1/77/0	3/231/0	3/231/0
WBP	Bond Pull	76 Wires, 3 units min	-	-	-	-	-	3/228/0
WBS	Ball Bond Shear	76 balls, 3 units min	-	-	-	-	-	3/228/0
XRAY	X-ray	(top side only)	-	-	-	-	3/15/0	3/15/0

- 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

- QBS: Qual By Similarity
- Qual Device BQ771802DPJ is qualified at LEVEL2-260C
- Qual Device BQ771809DPJ is qualified at LEVEL2-260C Qual Device BQ771817DPJ is qualified at LEVEL2-260C

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

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