PCN Number: 202			220615005.1		PCN Date:		ate:	June 16, 2022											
Title: Qualification of CF/			AB as an additional Fab site options for select LBC4 devices																
Customer Contact:			PCN Manager I			Dept:			Quality Services										
Proposed 1 st Ship Date:					Sample requests accepted until:			July 16, 2022*											
*Sample requests received			after July 16, 2022 will not be supported.																
Change Type:																			
Assembly Site			Assembly Process				Assembly Materials												
Design		Electrical Specification				Mechanical Specification		ĺ											
Test Site		Packing/Shipping/Labeling				Test Process		ĺ											
☐ Wafer Bump Site			Wafer Bump Material				Wafer Bump Process		Ī										
		\boxtimes	Wafer Fab Materials				Wafe	er Fab Process											
			Part number change																
						DCN Deteil	_					DOUBL!							

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of its CFAB fabrication facilities as an additional Wafer Fab option for the devices listed in the "Product Affected" section.

	Current Fa	b Site	New Fab Site			
Fab Site Process V		Wafer Diameter	Fab Site	Process	Wafer Diameter	
DL-LIN	LBC4	150 mm	CFAB	LBC4	200 mm	

Qual details are provided in the Qual Data Section.

Reason for Change:

These changes are part of our multiyear plan to transition products from our 150-milimeter factories to newer, more efficient manufacturing processes and technologies, underscoring our commitment to product longevity and supply continuity.

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
DL-LIN	DLN	USA	Dallas
CFAB	CU3	CHN	Chengdu

Sample product shipping label (not actual product label):



5A (L)TO:3750



(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483\$12

(2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS

Product Affected:

SN0405001PWPR	SN1407001PWPR	TPS40057PWPR	TPS63700DRCR
SN0805014PWPR	TPS40057PWP	TPS40057ZPWPR	TPS63700DRCT
SN0806054PWPR			

Qualification Report

Approve Date 6-May-2022

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: BQ24085DRCR	QBS Process Reference: TLC5970RHPR	QBS Package Reference: UCC27201AQDMKRQ1
HTOL	Life Test, 125C	1000 Hours	-	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	3/231/0	1/77/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	3/231/0
AC	Autoclave 121C	96 Hours	-	3/231/0	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0	3/231/0
HBM	ESD - HBM	3000 V	1/3/0	-	-
HBM	ESD - HBM	2000 V	-	3/9/0	-
CDM	ESD - CDM	1500 V	1/3/0	-	-
CDM	ESD - CDM	500 V	-	3/9/0	-
LU	Latch-up	(per JESD78)	1/6/0	3/18/0	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	-
MQ	Assembly MQ	Per Site Specifications	Pass	Pass	Pass

- QBS: Qual By Similarity
- Qual Device BQ24085DRCR is qualified at LEVEL2-260C
- 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

Qualification Report

Approve Date 6-May-2022

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: TPS63700DRCR	QBS Process Reference: TLC5970RHPR	QBS Package Reference: TPS2559DRCR
HTOL	Life Test, 125C	1000 Hours	1/77/0	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	3/231/0	2/154/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	3/231/0
uHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	3/231/0
AC	Autoclave 121C	96 Hours	-	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0	3/231/0
HBM	ESD - HBM	2000 V	1/3/0	-	-
HBM	ESD - HBM	2000 V	-	3/9/0	-
CDM	ESD - CDM	1000 V	1/3/0	-	-
CDM	ESD - CDM	500 V	-	3/9/0	-
LU	Latch-up	(per JESD78)	1/6/0	3/18/0	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	-
MQ	Assembly MQ	Per Site Specifications	Pass	Pass	Pass

- QBS: Qual By Similarity
- Qual Device TPS63700DRCR is qualified at LEVEL2-260C
- 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 contact shown below or your local Field Sales Representative.

Location	E-Mail			
WW Change Management Team	PCN_ww_admin_team@list.ti.com			

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