PCN Number: 20211210001.1				PCN Date: December 13, 2			December 13, 20	
Qualification of additional Fab site (UMC-F12) and additional Assembly site (CDAT) for select LBC9 devices					for			
Customer Conta	ct:	PCN Manager			Dept:		Quality Services	
Proposed 1 st Ship Date:		Mar 13, 2022		Estimated Samp Availability:		nple	Date provided at sample request.	
Change Type:					1 1			
Assembly Site	е	Assembly Process			Assembly Materials			
			al Specification			Mech	anical Specificatio	n
Test Site				ping/Labeling			Process	
Wafer Bump			ımp Mate				Wafer Bump Process	
Wafer Fab Sit	te	=	<u>b Materia</u>			Wafer Fab Process		
		•		er change				
		PC	N Deta	IIS				
Description of C			o avalitio	ation of a	n additi	anal fa	h (IIMC F12) and	
Texas Instruments assembly site (CD								
Cu	rrent Fab Si	te			Nev	/ Fab S	ab Site	
Current Fab Site	Process	Wafer Diameter		ew Fab Site	Pi	ocess	Wafer Diameter	
RFAB	LBC9	300 mm		1C-F12		LBC9	300 mm	
[ınd	42	4222790 422		CDAT 122349			
Qual details are p	rovided in the	Oual Data Se	ction.					
Reason for Chan								
Continuity of supp	nly							
, , ,	<u> </u>		0 !!!	·			. ,	
Anticipated impa	act on Form,	Fit, Function	n, Qualit	y or Kell	ability	(posit	ive / negative):	
None								
Impact on Envir	onmental Ra	ntings:						
Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.								
RoHS		REACH		Green S			IEC 62474	
☐ No Change			igertigotimes No Change					
Changes to product identification resulting from this PCN:								
Fab Site Information:								
Chip Site	Chip Site Origin Code			Chip Site Country Code			Chip Site City	
RFAB		20L) RFB		(21L) USA			Richardson	
UMC-F12		12		TWN			Tainan	
Assembly Site In Assembly Site				ssembly Country Code (23L)		L)	Assembly City	
CLARK	C	(AB		PHL	_		geles City, Pampar	nga
CDAT		DA		CHN			Chengdu	
	CDA: Clint Clint							

Sample product shipping label (not actual product label)



MADE IN: Malaysia

MSL 2 /260C/1 YEAR SEAL DT MSL 1 /235C/UNLIM 03/29/04

OPT: ITEM: (L)T0:1750



(1P) SN74LS07NSR

31T)LOT: 3959047MLA 4W) TKY(1T) 7523483SI2

(P) (2P) REV: CCO - SHE (22L) ASO: MLA

(V) 0033317 (21L) CCO:USA (23L) ACO: MYS

Product Affected:

Group 1 - Adding UMC-F12 Fab Site, CDAT Assembly Site and BOM updates:

TPS62824DMQR TPS6282533DMQR

Group 2 - Adding UMC-F12 Fab Site only:				
SN62825DMQR	TPS6282518DMQR	TPS62825DMQR	TPS6282618DMQR	
SN62826DMQR	TPS6282518DMQT	TPS62825DMQT	TPS6282618DMQT	
SN62827DMQR	TPS62826DMQR	TPS62826DMQT		



TI Information Selective Disclosure

Qualification Report

Approve Date 06-December-2021

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: SN62825DMQR	Qual Device: SN62827DMQR	QBS Process Device: TPS51486RJER	QBS Package Device: SN62825DMQR
AC	Autoclave, 121C, 2 atm	96 Hours	-	-	3/231/0	-
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	3/2400/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	3/231/0
HBM	ESD - HBM	2000 V	1/3/0	-	3/9/0	-
CDM	ESD - CDM	500 V	1/3/0	-	3/9/0	-
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
LU	Latch-up	(per JESD78)	1/6/0	-	3/18/0	-
TC	Temperature Cycle, -55/125C	700 Cycles	1/77/0	-	3/231/0	
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	-	3/231/0
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0

- Qual Device SN62825DMQR is qualified at LEVEL1-260C
- 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

TI Qualification ID: 20200520-134332

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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