

PCN Number:	20220127000.1	PCN Date:	January 31, 2022
Title:	Qualification of new Fab site (FFAB or GFAB) using qualified Process Technology, Die Revision, and additional Assembly site/BOM options for select devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Apr 30, 2022	Estimated Sample Availability:	Date provided at sample request.
Change Type:			
<input checked="" type="checkbox"/> Assembly Site	<input type="checkbox"/> Assembly Process	<input checked="" type="checkbox"/> Assembly Materials	
<input checked="" type="checkbox"/> Design	<input type="checkbox"/> Electrical Specification	<input type="checkbox"/> Mechanical Specification	
<input type="checkbox"/> Test Site	<input checked="" type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Process	
<input type="checkbox"/> Wafer Bump Site	<input type="checkbox"/> Wafer Bump Material	<input type="checkbox"/> Wafer Bump Process	
<input checked="" type="checkbox"/> Wafer Fab Site	<input checked="" type="checkbox"/> Wafer Fab Materials	<input checked="" type="checkbox"/> Wafer Fab Process	
	<input type="checkbox"/> Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of a new fab using a qualified process technology (FFAB or GFAB, SLM) and assembly (TIEMA) site/BOM options for selected devices as listed below in the product affected section.

Current Fab Site			New Fab Site		
Fab Site	Process	Wafer Diameter	Fab Site	Process	Wafer Diameter
SFAB	JI1	150 mm	FFAB	SLM	200 mm
			GFAB	SLM	150 mm
			GFAB	SLM	200 mm


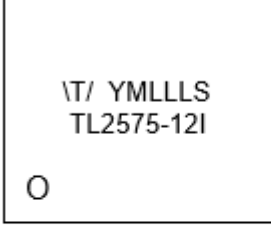
The die was also changed as a result of the process change.

Assembly Site material differences:

	TFME	GTBF	TIEMA
Mount compound	A-05	EY0000006	8052550
Mold compound	R-07	EN0000030	8096890

Qual details are provided in the Qual Data Section.

Package Marking Differences:

	GTBF/TFME	TIEMA
Sample marking	 <p>\T/ = TI LOGO YM = YEAR MONTH DATE CODE LLLL = ASSEMBLY LOT CODE S = ASSEMBLY SITE CODE O = NOTCH POSITION</p>	 <p>\T/ = TI LOGO YM = YEAR MONTH DATE CODE LLLL = ASSEMBLY LOT CODE S = ASSEMBLY SITE CODE O = NOTCH POSITION</p>
Notch position	Top middle	Bottom left

Assembly Site Information:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
TFME	NFM	CHN	Chongchuan
GTBF	GTF	CHN	Shatin
TIEMA	CU6	MYS	Melaka

Sample product shipping label (not actual product label)

TEXAS INSTRUMENTS
 MADE IN: Malaysia
 2DC: 20:
 MSL 2 /260C/1 YEAR SEAL DT
 MSL 1 /235C/UNLIM 03/29/04
 OPT:
 ITEM: 39
LBL: 5A (L)T0:1750

(1P) SN74LS07NSR
 (Q) 2000 (D) 0336
 (31T) LOT: 3959047MLA
 (4W) TKY (1T) 7523483SI2
 (P)
 (2P) REV: 0033317
 (20L) CSO: SHE (21L) CCO:USA
 (22L) ASO: MLA (23L) ACO: MYS

Product Affected:

TL2575-05IKTTR	TL2575-33IKTTR	TL2575HV-05IKTTR	TL2575HV-15IKTTR
TL2575-12IKTTR	TL2575-ADJIKTTR	TL2575HV-12IKTTR	TL2575HV-ADJIKTTR

Change Qualification Report:

Approve Date 01/26/2021

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device TL2575	Qual Device: LM2577SX-ADJ
AC	Autoclave 121C	96 hours	3/231/0	
HBM	ESD - HBM	2000V	1/3/0	
HTOL	Life Test, 150C	300 hours	1/77/0	
HTSL	High Temp Storage Bake 150C	1000 hours	QBS	1/77/0
LU	Latch-up	125C	1/6/0	
THB	Temperature Humidity Bias 85C/85%RH	1000 hours	3/231/0	
TC	Temperature Cycle, -65/150C	500 cycles	3/231/0	

- QBS: Qual By Similarity

- Qual family TL2575 is qualified at LEVEL3-260CG

- 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 RoHS-Exempt and Green

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