PCN Number:	20230612001.1	PC	CN Date:	June 12, 2023					
Title:	Qualification of TI Chengdu as an additional Assembly site for select devices								
Customer Contact:	PCN Manager								
Proposed 1 st Ship Date:	d 1 st Ship Sept 14, 2023 San			equests July 14, 2023*					
L. Carrier and Car	ceived after (July 14, 2023) will not be supported.								
Change Type:									
		Desig	gn		Wafer Bump Material				
Assembly Process		Data	ata Sheet		Wafer Bump Process				
Assembly Materials		Part	number change		Wafer Fab Site				
☐ Mechanical Specifi	ication	Test	Site		Wafer Fab Materials				
Packing/Shipping/L	_abeling	Test	Process		Wafer Fab Process				
	F	PCN	Details						
Description of Chang	e:								
Texas Instruments Inco additional Assembly site Group 1 device:									
	TFME		HNA		TI	CDAT			
Wire type	0.8mil Au		0.8mil Au			Bmil Cu			
Mount Compound	A-09		400194			26215			
Mold compound	R-27	450179			4222198				
riola compound	11 27		100279						
Group 2 device:									
	TFME	HNA			TI	CDAT			
Wire type	0.8mil Au	0.8mil Au			0.8mil Cu				
Mount Compound	A-03		400180			26215			
Mold compound	R-27			450179		22198			
Reason for Change:									
Continuity of supply									
Anticipated impact o	n Fit, Form, Function	n, Qı	uality or Reliability (posit	tive / nega	ative):			
None.									
Impact on Environme	ental Ratings:								
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 REA		Green Status			IEC 62474				
	No Change				No Change ■ No Change ■ No Change				
Changes to product identification resulting from this PCN:									
Assembly Site	Assembly Site Origin (22L)	ssembly Country Code (23L)	Assembly City						
TFME	NFM		CHN		Chongchi	uan Road			
Hana Technologies	HNT		THA	1	Ayutt				
TI Chengdu	CDA		CHN	1	Chengdu				
Chengaa									
Sample product shipping label (not actual product label)									

TEXAS INSTRUMENTS

MADE IN: Malaysia 2DC: 2Q:

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

LBL: 5A (L)TO:3750



(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483812

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

DRV5055A1QDBZR	DRV5055A3QDBZR	DRV5055Z1QDBZR	DRV5055Z3QDBZR					
DRV5055A1QDBZT	DRV5055A3QDBZT	DRV5055Z1QDBZT	DRV5055Z3QDBZT					
DRV5055A2QDBZR	DRV5055A4QDBZR	DRV5055Z2QDBZR	DRV5055Z4QDBZR					
DRV5055A2QDBZT	DRV5055A4QDBZT	DRV5055Z2QDBZT	DRV5055Z4QDBZT					
Product Affected Group 2:								
DRV5056A1QDBZR	DRV5056A6QDBZT	DRV5057A1QDBZR	DRV5057Z1QDBZT					
DRV5056A1QDBZT	DRV5056Z1QDBZR	DRV5057A1QDBZT	DRV5057Z2QDBZR					
DRV5056A2QDBZR	DRV5056Z1QDBZT	DRV5057A2QDBZR	DRV5057Z2QDBZT					
DRV5056A2QDBZT	DRV5056Z2QDBZR	DRV5057A2QDBZT	DRV5057Z3QDBZR					
DRV5056A3QDBZR	DRV5056Z2QDBZT	DRV5057A3QDBZR	DRV5057Z3QDBZT					
DRV5056A3QDBZT	DRV5056Z3QDBZR	DRV5057A3QDBZT	DRV5057Z4QDBZR					
DRV5056A4QDBZR	DRV5056Z3QDBZT	DRV5057A4QDBZR	DRV5057Z4QDBZT					
DRV5056A4QDBZT	DRV5056Z4QDBZR	DRV5057A4QDBZT						
DRV5056A6QDBZR	DRV5056Z4QDBZT	DRV5057Z1QDBZR						

Qualification Report

Approve Date 05-JUNE-2023

Qualification Results

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

Туре		Test Name	Condition	Duration	Qual Device: DRV5055A1QDBZR	Qual Device: DRV5056A1QDBZR	Qual Device: DRV5057A1QDBZR	QBS Reference: SN74HCS595QDYYRQ1
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	3/231/0
UHAST	А3	Unbiased HAST	130C/85%RH	96 Hours	1/77/0	-	-	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	1/77/0	-	-	-
SD	С3	PB Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	-	-	1/15/0
SD	С3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	-	-	1/15/0
SD	С3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB- Free Solder;	-	1/22/0	-	-	-
PD	C4	Physical Dimensions	Cpk>1.67	-	-	-	-	3/30/0
ESD	E2	ESD CDM	-	250 Volts	1/3/0	-	-	-

ESD	E2	ESD CDM	-	500 Volts	-	-	-	1/3/0
ESD	E2	ESD HBM	-	2000 Volts	-	-	-	1/3/0
LU	E4	Latch-Up	Per JESD78	-	-	-	-	1/6/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	1/30/0	1/30/0	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	-	-	3/90/0

QBS: Qual By Similarity

Qual Device DRV5055A1QDBZR is qualified at MSL1 260C

Qual Device DRV5056A1QDBZR is qualified at MSL1 260C

Qual Device DRV5057A1QDBZR is qualified at MSL1 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 $0.7 \, \text{eV}$: $150 \, \text{C/1k}$ Hours, and $170 \, \text{C/420}$ 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 Tl's external Web site: http://www.ti.com/

For questions regarding this notice, e-mails can be sent to Change Management team or your local Field Sales Representative.

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