PCN Number:				20210706003.1.1						P	CN Date:	July 07, 2021		
		tion o	of TIPI as an additional Assembly and Test site for select devices											
				PCN Manager										
Customer Contact:								Estimated Sample			Date Provided at Sample			
Proposed 1 st Ship Date			Date	Oct 07, 2021			1 4	-			equest	uest		
	ige T													
							Design			Ш	Wafer Bump Site			
Assembly Process					L	4	Data Sheet			\sqcup	Wafer Bump Material			
Assembly Materials						4	Part number change			\sqcup	Wafer Bump Process			
Mechanical Specific						4	Test S				Wafer Fab Site			
Packing/Shipping/L			ing/La	.abeling			Test Process			H	Wafer Fab Materials Wafer Fab Process			
							PCN	Details	<u> </u>	ш	water Fat	Process		
Desc	ripti	on of Cha	ange:				1 011	Details						
Texas Instruments Incorporated is announcing the qualification TIPI (TI Philippines Inc.) as Additional Assembly Site for select devices listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.														
				Assembly Site			ite	Assembly Country			_			
A		ibly Site		Origin				Code				Assembly Site City		
HANA				HNT				THA				Ayutthaya		
JCET				JCE				CHN				Jiangyin		
TIPI				PHI				PHL			Ва	aguio City		
Mate	erial I	Differenc	es:											
				HANA		JC		ET	TIPI					
Mount compound				400194			120402	2001600	4226215					
Mold compound				45021	4		111020	0003809	4222	198				
Reas	on fo	or Chang	e:											
Conti	inuity	of supply	′ .											
Anti	cipat	ed impac	t on	Form,	Fit, F	Fun	ction,	Quality o	r Reliabil	ity (positive /	/ negative):		
None														
Anticipated impact on Material Declaration														
No Impact to the Material Declaration			aratio	release. Upon production release the revised reports obtained from the <u>TI Eco-Info website</u> . There is no important material meeting current regulatory compliance requirements with this PCN change.					the production eports can be no impact to the					
Changes to product identification resulting from this PCN:														

Assembly Site		
HANA	Assembly Site Origin (22L)	ASO: HNT
JCET	Assembly Site Origin (22L)	ASO: JCE
TIPI	Assembly Site Origin (22L)	ASO: PHI

Sample product shipping label (not actual product label)



5A (L)TO:1750



(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY(1T) 7523483\$I2 (P) (2P) REV: (V) 0033317 (20L) C\$0: SHE (21L) CCO:USA (22L) A\$0: MLA (23L) ACO: MYS

Product Affected:

SN1511004DRLR	TMP102AIDRLT	TMP112BIDRLT	TMP302BDRLR-P
SN1511004DRLT	TMP102BIDRLR	TMP112NAIDRLR	TMP302BDRLT
SN1608035DRLR	TMP102BIDRLT	TMP112NAIDRLT	TMP302CDRLR
SN1710027DRLR	TMP112AIDRLR	TMP302ADRLR	TMP302CDRLT
SN1710027DRLT	TMP112AIDRLT	TMP302ADRLT	TMP302DDRLR
TMP102AIDRLR	TMP112BIDRLR	TMP302BDRLR	TMP302DDRLT

Qualification Report

Approve Date 17-Jun-2021

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: TMP102AIDRLR	Qual Device: TMP112AIDRLR	Qual Device: TMP302ADRLR
PC	PreCon Level 1	MSL1-260C	3/924/0	-	-
HTOL	High Temp Operating Life, 125C	1000 Hours	1/77/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	-	-
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	-	-
TC	Temperature Cycle, -65/150C	1000 Cycles	3/231/0	-	-
HTSL	High Temp Storage Bake 150C	1000 Hours	1/77/0	-	-
MSL	Moisture Sensitivity	MSL1-260C	3/36/0	-	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	1/30/0
YLD	Yield Evaluation	(per mfg. Site specification)	Pass	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	3/pass	-	-

- QBS: Qual By Similarity
- Qual Device TMP112AIDRLR is qualified at LEVEL1-260C
- Qual Device TMP302ADRLR is qualified at LEVEL1-260C
- Qual Device TMP102AIDRLR 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

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