

PCN Number:	20210806001.1		PCN Date:	August 12, 2021
Title:	Qualification of TIPI as an additional Assembly and Test site for select devices			
Customer Contact:	PCN Manager	Dept:	Quality Services	
Proposed 1st Ship Date:	Nov 12, 2021	Estimated Sample Availability:	Date Provided at Sample request	
Change Type:				
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>
				<input type="checkbox"/>
				Wafer Bump Site
				Wafer Bump Material
				Wafer Bump Process
				Wafer Fab Site
				Wafer Fab Materials
				Wafer Fab Process
PCN Details				
Description of Change:				
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	Assembly Site Origin	Assembly Country Code	Assembly Site City	
HANA	HNT	THA	Ayutthaya	
ASEWH	AWH	CHN	Weihai	
TFME	NFM	CHN	Chongchuan	
TIPI	PHI	PHL	Baguio City	
Material Differences:				
	HANA	ASEWH	TFME	TIPI
Mount compound	400180	1120999A2	A-03	8095733
Wire type	Au	Au	Cu	Cu
Mold compound	450207	4020039A1	R-17	4222198
Lead finish	NiPdAu	NiPdAu	Matte Sn	NiPdAu
Reason for Change:				
Continuity of supply.				
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):				
None				
Impact on Environmental 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	REACH	Green Status	IEC 62474
<input checked="" type="checkbox"/>	No Change	<input checked="" type="checkbox"/>	No Change	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	No Change	<input checked="" type="checkbox"/>	No Change	<input checked="" type="checkbox"/>
Changes to product identification resulting from this PCN:				

Assembly Site		
HANA	Assembly Site Origin (22L)	ASO: HNT
ASEWH	Assembly Site Origin (22L)	ASO: AWH
TFME	Assembly Site Origin (22L)	ASO: NFM
TIPI	Assembly Site Origin (22L)	ASO: PHI

Sample product shipping label (not actual product label)



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: (V) 0033317
(20L) CS0: SHE (21L) CCO:USA
(22L) ASO: MLA (23L) ACO: MYS

Product Affected:

SN74LVC1G3157DBVR	SN74LVC1G3157DBVT
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Qualification Report

Approve Date 28-Jun-2021

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: SN74LVC1G3157DBVR	QBS Package Reference: TPS76933DBVR
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
HTOL	Life Test, 150C	300 Hours	-	3/230/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0
WBP	Bond Pull	Wires	3/228/0	3/228/0
WBS	Ball Bond Shear	Wires	3/228/0	3/228/0

- QBS: Qual By Similarity
- Qual Device SN74LVC1G3157DBVR 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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