




PCN Number:	20160526001		PCN Date:	5/26/2016				
Title:	Qualification of new Assembly site (UTAC) for the TLV1702AIRUGR							
Customer Contact:	PCN Manager	Dept:	Quality Services					
Proposed 1st Ship Date:	8/26/2016	Estimated Sample Availability:	Provided upon Request					
Change Type:								
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials			
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification			
<input type="checkbox"/>	Test Site	<input 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 type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process			
	<input type="checkbox"/>		Part number change					
PCN Details								
Description of Change:								
Texas Instruments is pleased to announce the qualification UTAC as an additional Assembly site for the TLV1702AIRUGR device. Construction differences are noted below:								
	What	HNT	UTAC					
	Mold Compound	SID#450176	SID#CZ0290					
Reason for Change:								
Continuity of Supply								
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):								
None								
Anticipated impact on Material Declaration								
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website .					
Changes to product identification resulting from this PCN:								
Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (21L)	Assembly City					
Hana Thailand	HNT	THA	Bangkok					
UTAC	NSE	THA	Bangkok					
Sample product shipping label (not actual product label)								
   <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>MADE IN: Malaysia 2DC: 2Q:</p> <table border="1" style="font-size: small;"> <tr> <td>MSL 2 /260C/1 YEAR</td> <td>SEAL DT</td> </tr> <tr> <td>MSL 1 /235C/UNLIM</td> <td>03/29/04</td> </tr> </table> <p>OPT: ITEM: 39 LBL: 5A (L)TO:1750</p> </div> <div style="width: 60%;"> <p>(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483SI2 (P) (2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO: USA (22L) ASO: MLA (23L) ACO: MYS</p> </div> </div>					MSL 2 /260C/1 YEAR	SEAL DT	MSL 1 /235C/UNLIM	03/29/04
MSL 2 /260C/1 YEAR	SEAL DT							
MSL 1 /235C/UNLIM	03/29/04							
Topside Device marking:								
Assembly site code for HNT= H								
Assembly site code for NSE = J								

Product Affected

TLV1702AIRUGR



TI Information
Selective Disclosure

Qualification Report

TLV1702AIRUG in UTAC

Approve Date 20-Apr-2016

Product Attributes

Attributes	Qual Device: TLV1702AIRUG	QBS Package Reference: TLV342IRUGR
Assembly Site	UTAC	UTAC
Package Family	X2QFN	X2QFN
Flammability Rating	UL 94 V-0	UL 94 V0
Wafer Fab Supplier	FFAB	DFAB
Wafer Process	BICOM3XHV	50A21

- QBS: Qual By Similarity

- Qual Device TLV1702AIRUG is qualified at LEVEL1-260CG

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TLV1702AIRUG	QBS Package Reference: TLV342IRUGR
AC	Autoclave 121C	96 Hours	-	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/225/0
HBM	ESD - HBM	2000 V	-	-
CDM	ESD - CDM	1500 V	-	-
HTOL	Life Test, 125C	1000 Hours	-	-
HTOL	Life Test, 150C	300 Hours	-	3/231/0
HTSL	High Temp. StorageBake, 150C	1000 Hours	-	3/231/0
HTSL	High Temp. StorageBake, 170C	420 Hours	2/154/0	-
LU	Latch-up	(per JESD78)	-	-
PD	Physical Dimensions	--	-	3/15/0
SD	Solderability	Pb Free, 8 Hours Steam Age	3/30/0	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	3/231/0	-
WBP	Wire Pull	Wires	-	3/228/0
WBS	Ball Bond Shear	Wires	-	3/228/0

- 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:

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
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