PCN Number:	20161215003	**PCN Date:**	Dec 16 2016
Title:	Qualification of new Assembly site and Material Set for the LM97937RMER/T		
Customer Contact:	PCN Manager	**Dept:**	Quality Services
Proposed 1st Ship Date:	March 16 2017	**Estimated Sample Availability:**	Provided upon Request
Change Type:			

☒	Assembly Site	☒	Assembly Process	☒	Assembly Materials
☐	Design	☐	Electrical Specification	☐	Mechanical Specification
☐	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process
		☐	Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of UTAC as a new Assembly site for the LM97937RMER/T. Construction differences are as follows:

What	TI Melaka	UTAC
Mount Compound	8001111	**SID#PZ0035**
Mold Compound	8095387	**SID#CZ0288**
Bond Wire, diameter	Au, 1.0 mils	**Cu, 0.8 mils**

Reason for Change:

Continuity of Supply

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

None

Anticipated impact on Material Declaration

☐	No Impact to the Material Declaration	☒	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
TI Melaka	CU6	MYS	Melaka
UTAC	**NSE**	**THA**	**Bangkok**

Sample product shipping label (not actual product label)

Topside Device marking (if included):
Assembly site code for CU6= U
Assembly site code for NSE = J

Product Affected	
LM97937RMER	LM97937RMET

TEXAS INSTRUMENTS

TI Information
Selective Disclosure

Qualification Report

Qualification of LM97937 product family at UTAC with Cu wirebond
Approve Date 07-Dec-2016

Product Attributes

Attributes	Qual Device: LM97937RME_Cu	QBS Product Reference: LM97937RME	QBS Process Reference: QEVOPT2A	QBS Package Reference: ADC14X250	QBS Package Reference: DAC5682ZIRGCR
Assembly Site	UTAC	TIEM-AT	A7	UTAC	UTAC
Package Family	QFN	QFN	PLCC	QFN	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	-	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	MFAB	MFAB	MFAB	MFAB	RFAB
Wafer Process	BICMOS13	BICMOS13	BICMOS13	BICMOS13	C05

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL3-260C: LM97937RME_PCC, LM97937RME_AU

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM97937RME_Cu	QBS Product Reference: LM97937RME	QBS Process Reference: QEVOPT2A	QBS Package Reference: ADC14X250	QBS Package Reference: DAC5682ZIRGCR
AC	Autoclave 121C	96 Hours	3/231/0	2/77/0	-	-	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	-	Pass	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	3/231/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	1/77/0	3/231/0	-
HBM	ESD - HBM	4000 V	-	1/3/0	-	-	-
CDM	ESD - CDM	1500 V	-	1/3/0	-	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	3/231/0	-	-
HTOL	Life Test, 80C	952 Hours	-	1/77/0	-	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	3/231/0	-	-	3/231/0	-
LU	Latch-Up	(per JESD78)	-	2/12/0	3/18/0	3/18/0	-
TC	Temperature Cycle, -40/125C	1000 Cycles	-	-	1/77/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	1/77/0	-	3/231/0	3/231/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	-	-	-	3/231/0	3/231/0

- 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:
Qualified Pb-Free(SMT) and Green

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

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