

PCN Number: 20150313000 **PCN Date:** 3/16/2015

Title: Qualification of TI Malaysia as an Alternate Assembly and Test Site for the MC33063AD with BOM differences

Customer Contact: [PCN Manager](#) **Dept:** Quality Services

Proposed 1st Ship Date: 06/16/2015 **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 checked="" 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 of TI Malaysia as an alternate Assembly and test site for the MC33063AD. Differences between devices built between the 2 locations is shown below:

	TI Mexico	TI Malaysia
Mount Compound	4147858	4042500
Location (City)	Aguascalientes	Kuala Lumpur

Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.

Reason for Change:

Continuity of Supply

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

None

Changes to product identification resulting from this PCN:

Assembly Site		
TI Mexico	Assembly Site Origin (22L)	ASO: MEX
TI Malaysia	Assembly Site Origin (22L)	ASO: MLA

Sample product shipping label (not actual product label)

Topside Device marking:
 Assembly site code for MEX= M
Assembly site code for MLA= K

Product Affected

MC33063AD

MC33063ADR


**TI Information
Selective Disclosure**
Qualification Report
MC33063AD & MC33063ADR Offload from FMX to MLA (SLL Multi-Source)

Approved 02/16/2015

Product Attributes

Attributes	Qual Device: MC33063ADR	QBS Process: TL499ACP	QBS Pkg: MAX232DR	QBS Pkg: RC4558DR	QBS Pkg: SN74LV14ADR	QBS Pkg: ULN2003ADR
Assembly Site	MLA (TIM)	SFAB	MLA (TIM)	MLA (TIM)	MLA (TIM)	MLA (TIM)
Package Family	SOIC (6 mil thick)	PDIP	SOIC	SOIC	SOIC	SOIC
Flammability Rating	-		UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	SFAB	SFAB	SFAB	SFAB	SFAB	SFAB
Wafer Fab Process	JI-1	JI-BIP	LBC3S	JI1-Lin	EPIC1-S_SLM	JI-SLM

- QBS: Qual By Similarity

- Qual Device MC33063ADR 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: MC33063ADR	QBS Process: TL499ACP	QBS Package: MAX232DR	QBS Package: RC4558DR	QBS Package: SN74LV14ADR	QBS Package: ULN2003ADR
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	3/231/0	1/77/0	1/77/0	1/77/0
AC	Autoclave 121C	96 Hours	-		3/231/0	1/77/0	1/77/0	1/77/0
TC	Temperature Cycle, -65/150C	500 Cycles	-		3/231/0	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-		-	3/231/0	3/231/0	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-		3/231/0	-	-	3/231/0
HTOL	Life Test, 150C	300 Hours	-	3/231/0	3/231/0	1/77/0	1/77/0	1/77/0
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	Pass	Pass	Pass	Pass
ESD	ESD-HBM	2500V	1/3/0					
ESD	ESD-CDM	1500V	1/3/0					
LU	Latchup	Per JESD78	1/6/0					
WBS	Bond Strength	Wires	-		3/228/0	1/76/0	1/76/0	1/76/0
LI	Lead Pull to Destruction	Leads	-		3/66/0	1/22/0	1/22/0	1/22/0
FLAM	Flammability (IEC 695-2-2)	--	-		3/15/0	1/5/0	1/5/0	-

FLAM	Flammability (UL 94V-0)	--	-		3/15/0	1/5/0	1/5/0	-
FLAM	Flammability (UL-1694)	--	-		3/15/0	1/5/0	1/5/0	-

- 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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USA	PCNAmericasContact@list.ti.com
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