



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20230217003.1

**Qualify TI Mexico as an additional Assembly site for select devices
Change Notification / Sample Request**

Date: February 17, 2023

To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the PCN Team ([PCN ww admin team@list.ti.com](mailto:PCN_admin_team@list.ti.com)). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team
SC Business Services

20230217003.1
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LMR33630BDDA	null
TPS54327DDAR	null
LMR33630CDDAR	null
TPS54328DDAR	null
TPS54531DDA	null
TPS54531DDAR	null
LMR33610ADDAR	null
LMR33620ADDA	null
LMR33620ADDAR	null
LMR33630ADDAR	null
LMR33630BDDAR	null
TPS54327DDA	null
TPS54328DDA	null
TPS54335ADDAR	null
LMR33610BDDAR	null
LMR33630ADDA	null
LMR33640ADDAR	null
SN1708001DDAR	null
TPS54336ADDAR	null
LMR33630CDDA	null
TPS54329EDDAR	null
TPS54336ADDA	null
LMR33640DDDAR	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20230217003.1			PCN Date:	February 17, 2023
Title:	Qualify TI Mexico as an additional Assembly site for select devices				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	May 17, 2023	Sample requests accepted until:	Mar 17, 2023*		
*Sample requests received after Mar 17, 2023 will not be supported.					
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process
PCN Details					
Description of Change:					

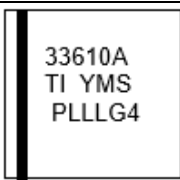
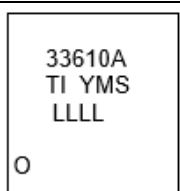
Texas Instruments is pleased to announce the qualification of TI Mexico as an additional Assembly site for the list of devices shown below. Material differences between sites as follows.

Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly City
ASESH	ASH	CHN	Shanghai
TI Mexico	MEX	MEX	Aguascalientes

Material Differences:

	ASESH	TI Mexico
Mount compound	EY1000063	4147858
Mold Compound	EN2000509, EN20000519	4211880

Package Marking differences:

	ASESH	TI Mexico
Pin One ID	Stripe	Dimple
ECAT value	With	Without
Example	 <p> TI = TI LETTERS YM = YEAR MONTH DATE CODE LLL = ASSEMBLY LOT CODE S = ASSEMBLY SITE CODE P = SECONDARY SITE CODE G4 = ECAT █ = PIN 1 STRIPE </p>	 <p> TI = TI LETTERS YM = YEAR MONTH DATE CODE LLLL = ASSEMBLY LOT CODE S = ASSEMBLY SITE CODE O = PIN 1 INDICATOR </p>

Reason for Change:

Continuity of Supply

Anticipated impact on Fit, Form, 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"/> No Change	<input checked="" type="checkbox"/> No Change

Changes to product identification resulting from this PCN:

Assembly Site		
ASESH	Assembly Site Origin (22L)	ASO: ASH
TI Mexico	Assembly Site Origin (22L)	ASO: MEX

Sample product shipping label (not actual product label)



TEXAS
INSTRUMENTS

MADE IN: Malaysia
2DC: 20:

MSL 2 / 260C / 1 YEAR	SEAL DT
MSL 1 / 235C / UNLIM	03/29/04

OPT:
ITEM:

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) CC0: USA
(22L) AS0: MLA (23L) AC0: MYS

Product Affected

LMR33610ADDAR	TPS54327DDAR	TPS54335ADDAR	LMR33620CDDA
LMR33610BDDAR	TPS54328DDA	TPS54336ADDA	LMR33620CDDAR
LMR33620BDDAR	TPS54328DDAR	TPS54336ADDAR	LMR33630ADDA
LMR33630BDDAR	TPS54329DDA	TPS54531DDA	LMR33630ADDAR
LMR33640ADDAR	TPS54329DDAR	TPS54531DDAR	LMR33630BDDA
SN1101003DDAR	TPS54329EDDA	LMR33620ADDA	LMR33630CDDA
SN1708001DDAR	TPS54329EDDAR	LMR33620ADDAR	LMR33630CDDAR
TPS54327DDA	TPS54335ADDA	LMR33620BDDA	LMR33640DDDAR

Qualification Report

Approve Date 19-Jan-2023

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: LMR33610ADDAR	Qual Device: TPS54335ADDAR	Qual Device: TPS54531DDAR	QBS Reference: LMR16020PDDAR	QBS Reference: DRV8251DDAR	QBS Reference: LM5169FQDDARQ1
HAST	A2	Biased HAST	110C/85%RH	264 Hours	-	-	-	-	-	3/231/0
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	-	3/231/0	-
UHA	A3	Autoclave	121C/15psig	96 Hours	3/231/0	-	-	3/231/0	3/231/0	-
UHA	A3	Unbiased HAST	110C/85%RH	264 Hours	-	-	-	-	-	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	1/77/0	-	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	-	3/231/0	3/231/0	-
HTSL	A6	High Temperature Storage Life	175C	500 Hours	-	-	-	-	-	3/135/0
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	-	1/77/0	-
HTOL	B1	Life Test	150C	300 Hours	-	-	-	-	-	1/77/0
WBS	C1	Ball Shear	76 balls, 3 units min	Wires	3/228/0	1/76/0	1/76/0	3/228/0	3/228/0	3/90/0
WBP	C2	Bond Pull	76 Wires, 3 units min	Wires	3/228/0	1/76/0	1/76/0	3/228/0	3/228/0	3/90/0
SD	C3	PB Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB Solder;	-	-	-	-	-	3/66/0	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	-	-	-	3/66/0	1/15/0
PD	C4	Physical Dimensions	Cpk>1.67	-	3/30/0	1/10/0	1/10/0	3/30/0	3/30/0	3/30/0
ESD	E2	ESD CDM	-	1500 Volts	-	-	-	-	1/3/0	-
ESD	E2	ESD CDM	-	500 Volts	-	-	-	-	-	1/3/0
ESD	E2	ESD HBM	-	2000 Volts	-	-	-	-	-	1/3/0
ESD	E2	ESD HBM	-	4000 Volts	-	-	-	-	1/3/0	-
LU	E4	Latch-Up	Per JESD78	-	-	-	-	-	1/6/0	1/6/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	-	1/30/0	1/30/0	1/30/0	3/90/0	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	-	-	-	-	3/90/0

QBS: Qual By Similarity

Qual Device LMR33610ADDAR is qualified at MSL2 260C

Qual Device TPS54335ADDAR is qualified at MSL2 260C

Qual Device TPS54531DDAR is qualified at MSL2 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

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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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