



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20210928001.1
Qualification of TI Mexico as an additional Assembly site
for select devices
Change Notification / Sample Request

Date: September 29, 2021
To: PREMIER FARNELL 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_admin_team@list.ti.com). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team
SC Business Services

20210928001.1
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
LM5017MR/NOPB	null

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

PCN Number:	20210928001.1			PCN Date:	September 29, 2021												
Title:	Qualification of TI Mexico as an additional Assembly site for select devices																
Customer Contact:	PCN Manager	Dept:	Quality Services														
Proposed 1st Ship Date:	Dec 30, 2021		Estimated Sample Availability:	Date Provided at Sample request													
Change Type:																	
☒	Assembly Site	☐	Design	☐	Wafer Bump Site												
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Material												
☒	Assembly Materials	☐	Part number change	☐	Wafer Bump Process												
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site												
☒	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials												
				☐	Wafer Fab Process												
PCN Details																	
Description of Change:																	
Texas Instruments is pleased to announce the qualification of TI Mexico as additional Assembly Site for Select Devices listed in the "Product Affected" Section. Material differences are as follows.																	
<table border="1"> <thead> <tr> <th>Assembly Site</th> <th>Assembly Site Origin</th> <th>Assembly Country Code</th> <th>Assembly City</th> </tr> </thead> <tbody> <tr> <td>TI Melaka</td> <td>CU6</td> <td>MYS</td> <td>Melaka</td> </tr> <tr> <td>TI Mexico</td> <td>MEX</td> <td>MEX</td> <td>Aguascalientes</td> </tr> </tbody> </table>						Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly City	TI Melaka	CU6	MYS	Melaka	TI Mexico	MEX	MEX	Aguascalientes
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	TI Melaka	TI Mexico															
Mount Compound	4213245	4147858															
Mold compound	8095178	4211880															
Lead finish	Matte Sn	NiPdAu															
Upon expiry of this PCN TI will combine lead free solutions in a single standard part number, for the devices in the Product affected section. For example; LM25017MR/NOPB – can ship with both Matte Sn and NiPdAu. Example: – Customer order for 7500 units of LM25017MR/NOPB with 2500 units SPQ (Standard Pack Quantity per Reel). – TI can satisfy the above order in one of the following ways. I. 3 Reels of NiPdAu finish. II. 3 Reels of Matte Sn finish III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish. IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish.																	
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.																	
<table border="1"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td>☒ No Change</td> <td>☒ No Change</td> <td>☒ No Change</td> <td>☒ No Change</td> </tr> </tbody> </table>						RoHS	REACH	Green Status	IEC 62474	☒ No Change	☒ No Change	☒ No Change	☒ No Change				
RoHS	REACH	Green Status	IEC 62474														
☒ No Change	☒ No Change	☒ No Change	☒ No Change														

Changes to product identification resulting from this PCN:

Assembly Site		
TI Melaka	Assembly Site Origin (22L)	ASO: CU6
TI Mexico	Assembly Site Origin (22L)	ASO: MEX

Sample product shipping label (not actual product label)



TEXAS INSTRUMENTS
MADE IN: Malaysia
2DC: 2Q:
MSL 2 /260C/1 YEAR SEAL DT
MSL 1 /235C/UNLIM 03/29/04
OPT: ITEM: 39
LBL: 5A (L)T0:1750



Pb
G4

G3 = Matte Sn
G4 = NiPdAu

(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

Product Affected:

LM25017MR/NOPB	LM25017MRX/NOPB	LM34927MRX/NOPB	LM5017MRE/NOPB
LM25017MRE/NOPB	LM34927MR/NOPB	LM5017MR/NOPB	LM5017MRX/NOPB

Qualification Report

Approved 17-Sep-2021

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM5017MRX/N OPB	QBS Process Reference: LM25117QPMHX/N OPB-QUAL	QBS Process Reference: UCC27282QD RQ1	QBS Process Reference: UCC27284Q DO1	QBS Package Reference: TL494IDR	QBS Package Reference: DRV8251D DAR
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	1/77/0	-	3/231/0	-
ED	Electrical Characterization, side by side	Per datasheet	Pass	Pass	Pass	Pass	Pass	-
FLAM	Flammability (IEC 695-2-2)	--	-	-	-	-	3/15/0	-
FLAM	Flammability (UL 94V-0)	--	-	-	-	-	3/15/0	-
FLAM	Flammability (UL-1694)	--	-	-	-	-	3/15/0	-
HAST	Biased HAST, 130C/85%RH	192 Hours (for info)	3/231/0	-	-	-	3/229/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	3/231/0	1/77/0	-	3/231/0	-

Type	Test Name / Condition	Duration	Qual Device: <u>LM5017MRX/NOPB</u>	QBS Process Reference: <u>LM25117OPMHX/NOPB-QUAL</u>	QBS Process Reference: <u>UCC27282QDRO1</u>	QBS Process Reference: <u>UCC27284QDO1</u>	QBS Package Reference: <u>TL494IDR</u>	QBS Package Reference: <u>DRV8251DAR</u>
HTOL	Life Test, 125C	1000 Hours	1/77/0	3/231/0	-	-	-	-
HTOL	Life Test, 150C	1000 Hours	-	-	1/80/0	1/80/0	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	-	-	-	3/231/0	-
HTSL	High Temp Storage Bake 175C	500 Hours	-	-	1/77/0	-	-	-
LI	Lead Fatigue	Leads	3/27/0	-	-	-	-	-
LI	Lead Pull	Leads	3/72/0	-	-	-	3/66/0	-
PKG	Lead Finish Adhesion	Leads	3/27/0	-	-	-	-	-
SD	Solderability	Pb free	Pass (1)	-	-	-	-	2/44/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	1/77/0	-	3/231/0	-
TS	Thermal Shock -65/150C	500 Cycles	-	-	-	-	3/231/0	-
WBP	Bond Pull	Wires	3/228/0	3/90/0	3/90/0	3/90/0	3/228/0	-
WBS	Ball Bond Shear	Wires	3/228/0	3/90/0	3/90/0	3/90/0	3/228/0	-

- QBS: Qual By Similarity

- Qual Device LM5017MRX/NOPB is qualified at LEVEL3-260CG

- 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

Notes:

- (1) Leadframe supplier data 1 strip

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
Japan	PCNJapanContact@list.ti.com

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