



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20201022000.1
Qualification of TI Philippines as an additional
Assembly site for select devices
Change Notification / Sample Request

Date: November 03, 2020
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.

We request you acknowledge 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 you require samples or additional data to support your evaluation, please request within 30 days.

The proposed first ship date is indicated 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, contact your local Field Sales Representative or the PCN Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact your field sales representative.

Sincerely,

PCN Team
SC Business Services

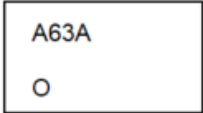
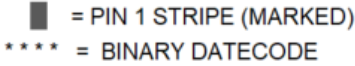
20201022000
Attachment: 1

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
LP5907MFX-2.5/NOPB	null
LMC7101BIM5/NOPB	null
LM321MF/NOPB	null
LP2980AIM5X-5.0/NOPB	null
LP2980IM5-5.0/NOPB	null
LP2985IM5-3.3/NOPB	null
LP2985IM5-5.0/NOPB	null
LP5907MFX-3.3/NOPB	null
LP2980AIM5-3.3/NOPB	null
LP2980IM5-3.0/NOPB	null
LP5907MFX-2.8/NOPB	null
LMC7101BIM5X/NOPB	null
LP2985AIM5-3.3/NOPB	null
LP5907MFX-1.8/NOPB	null
LP2985AIM5-5.0/NOPB	null
LM321MFX/NOPB	null
LP5907MFX-3.0/NOPB	null
LMC7101AIM5/NOPB	null
LP5907MFX-1.5/NOPB	null
LP2980AIM5-5.0/NOPB	null
LP2980IM5X-5.0/NOPB	null
LMC7101AIM5X/NOPB	null
LP2985AIM5X-3.3/NOPB	null
LP2980AIM5X-3.0/NOPB	null

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

PCN Number:	20201022000.1			PCN Date:	Nov. 3, 2020												
Title:	Qualification of TIPI as an additional Assembly site for select devices																
Customer Contact:	PCN Manager	Dept:	Quality Services														
Proposed 1st Ship Date:	Feb. 3, 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 Incorporated is announcing the qualification TIPI (TI Philippines Inc.) as Additional Assembly Site for select devices listed in the "Product Affected" Section. Current assembly sites and 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 Site City</th> </tr> </thead> <tbody> <tr> <td>TIEMA</td> <td>CU6</td> <td>MYS</td> <td>Melaka</td> </tr> <tr> <td>TI Philippines</td> <td>PHI</td> <td>PHL</td> <td>Baguio City</td> </tr> </tbody> </table>						Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City	TIEMA	CU6	MYS	Melaka	TI Philippines	PHI	PHL	Baguio City
Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City														
TIEMA	CU6	MYS	Melaka														
TI Philippines	PHI	PHL	Baguio City														
Material Differences:																	
	TIEMA	TIPI															
Mount compound	8075531	8095733															
Mold compound	8097131	4222198															
Wire Type	Au	Cu															
Lead Finish	Matte Sn	NiPdAu															
Marking Differences:																	
TIEMA TOPSIDE SYMBOL  O = PIN 1 INDICATOR BACKSIDE SYMBOL  YM = YEAR MONTH DATE CODE L = LAST DIGIT LOT CODE 0 = ORIENTATION DOT			TI Philippines TOPSIDE SYMBOL  														
Reason for Change:																	
Continuity of supply.																	
Anticipated impact on Form, Fit, 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-Info website . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.

Changes to product identification resulting from this PCN:

Assembly Site		
TIEMA	Assembly Site Origin (22L)	ASO: CU6
TIPI	Assembly Site Origin (22L)	ASO: PHI

Sample product shipping label (not actual product label)



(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:

LM321MF/NOPB	LP2980AIM5-5.0/NOPB	LP2985AIM5-3.3/NOPB	LP5907MFX-1.8/NOPB
LM321MFX/NOPB	LP2980AIM5X-3.0/NOPB	LP2985AIM5-5.0/NOPB	LP5907MFX-2.5/NOPB
LMC7101AIM5/NOPB	LP2980AIM5X-3.3/NOPB	LP2985AIM5X-3.3/NOPB	LP5907MFX-2.8/NOPB
LMC7101AIM5X/NOPB	LP2980AIM5X-5.0/NOPB	LP2985AIM5X-5.0/NOPB	LP5907MFX-2.85/NOPB
LMC7101BIM5/NOPB	LP2980IM5-3.0/NOPB	LP2985IM5-3.3/NOPB	LP5907MFX-2.9/NOPB
LMC7101BIM5X/NOPB	LP2980IM5-3.3/NOPB	LP2985IM5-5.0/NOPB	LP5907MFX-3.0/NOPB
LMC7101BIM5X/S7002311	LP2980IM5-5.0/NOPB	LP2985IM5X-3.3/NOPB	LP5907MFX-3.1/NOPB
LP2980AIM5-3.0/NOPB	LP2980IM5X-3.0/NOPB	LP2985IM5X-5.0/NOPB	LP5907MFX-3.2/NOPB
LP2980AIM5-3.3/NOPB	LP2980IM5X-3.3/NOPB	LP5907MFX-1.2/NOPB	LP5907MFX-3.3/NOPB
LP2980AIM5-3.3/S7002302	LP2980IM5X-5.0/NOPB	LP5907MFX-1.5/NOPB	LP5907MFX-4.5/NOPB

Qualification Report

Approve Date 22-Sep-2020

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: <u>LM321MFX/NO PB</u>	Qual Device: <u>LP2985AIM550 NO</u>	Qual Device: <u>LP5907ME X-4.5/NOPB</u>	QBS Package Reference: <u>TLV1805QDBVR Q1</u>	QBS Package Reference: <u>TPS2051CDB VR</u>	QBS Package Reference: <u>TPS76933DB VR</u>
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0	-	-
ED	Electrical Characterization, side by side	(per datasheet limits)	Pass	Pass	Pass	Pass	-	-
HAS	Biased HAST,	192 Hours	-	-	-	3/231/0	-	-

Type	Test Name / Condition	Duration	Qual Device: <u>LM321MFX/NO</u> <u>PB</u>	Qual Device: <u>LP2985AIM550</u> <u>NO</u>	Qual Device: <u>LP5907ME</u> <u>X-</u> <u>4.5/NOPB</u>	QBS Package Reference: <u>TLV1805QDBVR</u> <u>Q1</u>	QBS Package Reference: <u>TPS2051CDB</u> <u>VR</u>	QBS Package Reference: <u>TPS76933DB</u> <u>VR</u>
T	130C/85%RH	(for information)						
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	3/231/0	-	-
HTSL	High Temp Storage Bake 150C	1000 Hours	-	3/231/0	-	-	-	-
HTSL	High Temp Storage Bake 175C	1000 Hours	-	-	-	3/231/0	-	-
SD	Solderability	Pb Free	-	-	-	1/15/0	3/66/0	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0
WBP	Bond Pull	Wires	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0
WBS	Ball Bond Shear	Wires	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0

- QBS: Qual By Similarity

- Qual Devices LM321MFX/NOPB, LP5907MFX-4.5/NOPB, LP2985AIM550NO are qualified at LEVEL1-260CG

- 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

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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