



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20191003003.1

**Qualification of AIZU as an additional Fab Site option for select CMOS9T devices
Change Notification / Sample Request**

Date: October 10, 2019
To: Newark/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_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

PCN Team
SC Business Services

20191003003.1
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
LP5907MFX-3.3/NOPB	null
LP5907MFX-1.2/NOPB	null
LP5907MFX-1.8/NOPB	null
LP5907MFX-2.5/NOPB	null
LP5907MFX-2.8/NOPB	null
LP5907MFX-2.9/NOPB	null
LP5907MFX-3.0/NOPB	null
LP5907MFX-4.5/NOPB	null

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

PCN Number:	20191003003.1	PCN Date:	Oct 10, 2019
Title:	Qualification of AIZU as an additional Fab Site option for select CMOS9T devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Jan 10, 2020	Estimated Sample Availability:	Date provided at sample request.
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Mechanical Specification
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Packing/Shipping/Labeling
		<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<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 its AIZU fabrication facility as an additional Wafer Fab source for the selected devices listed in "Product Affected" section.

Current Sites			Additional Sites		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
MAINEFAB	CMOS9T	200mm	AIZU	CMOS9T	200mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Continuity of Supply

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

None

Changes to product identification resulting from this PCN:

Current

Chip Site	Chip Site Origin (20L)	Chip Site Country Code (21L)	Chip Site City
MAINEFAB	CUA	USA	South Portland

New Fab Site

Chip Site	Chip Site Origin (20L)	Chip Site Country Code (21L)	Chip Site City
AIZU	CU2	JPN	Aizuwakamatsu-shi

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: 39
 ITEM:
LBL: 5A (L)T0:1750

(1P) SN74LS07NSR
 (Q) 2000 (D) 0336
 (31T) LOT: 3959047MLA
 (4W) TKY (1T) 7523483S12
 (P)
 (2P) REV: (V) 0033317
 (20L) CS0: SHE (21L) CCO: USA
 (22L) AS0: MLA (23L) ACO: MYS

Product Affected Group:

LP5907MFX-1.2/NOPB	LP5907MFX-2.5/NOPB	LP5907MFX-2.9/NOPB	LP5907MFX-3.2/NOPB
LP5907MFX-1.5/NOPB	LP5907MFX-2.8/NOPB	LP5907MFX-3.0/NOPB	LP5907MFX-3.3/NOPB
LP5907MFX-1.8/NOPB	LP5907MFX-2.85/NOPB	LP5907MFX-3.1/NOPB	LP5907MFX-4.5/NOPB

Qualification Report

Approve Date 11-Sep-2019

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LP5907MFX- 1.2/NOPB	Qual Device: LP5907MFX-2.85/NO	Qual Device: LP5907MFX-4.5/NOPB	QBS Product/Process Reference: LP5907UVX-3.3-TL	QBS Package Reference: LP2985AIMS- 5.0/NOPB-TL	QBS Package Reference: LP5907MFX- 2.9/NOPB	QBS Package Reference: LP5907QMF: 4.5Q1
AC	Autoclave 121C	96 Hours	-	-	-	-	3/231/0	-	1/77/0
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-	1/90/0	-	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-	3/2400/0	3/2400/0	-	2/800/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	3/231/0	-	1/77/0
HBM	ESD - HBM	2000 V	-	-	2/6/0	3/9/0	3/9/0	-	1/3/0
CDM	ESD - CDM	750 V	-	-	2/6/0	3/9/0	3/9/0	-	1/3/0
HTOL	Life Test, 125C	1000 Hours	-	-	-	3/231/0	3/231/0	-	1/77/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	3/231/0	3/231/0	-	-
HTSL	High Temp. Storage Bake, 175C	500 Hours	-	-	-	-	-	-	1/77/0
LU	Latch-up	(per JESD78)	-	-	2/12/0	3/18/0	-	-	1/6/0
SD	Solderability	8 Hours Steam Age, Pb-Free	-	-	-	-	-	1/15/0	-
SD	Solderability	Pb	-	-	-	-	-	1/15/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	-	3/231/0	3/231/0	-	1/77/0
WP	Bond Pull/Post 500 Temperature Cycle, -	Wires	-	-	-	-	-	-	1/30/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-	3/231/0	-	-	-
THB	Biased Temperature and Humidity, 85C/85%RH	500 Hours	-	-	-	3/231/0	-	-	-
UHAST	Unbiased HAST 130C/85%RH	96 Hours	-	-	-	3/231/0	-	-	-
WBP	Bond Pull	Wires	-	-	-	-	-	1/76/0	-
WBS	Ball Bond Shear	Wires	-	-	-	-	-	1/76/0	-
MQ	Manufacturability	Assembly	-	-	Pass	-	-	-	-
YLD	Yield (Test)	Yield	Pass	Pass	Pass	-	-	-	-

- QBS: Qual By Similarity

- Qual Devices qualified at LEVEL1-260C: LP5907MFX-2.85/NO, LP5907MFX-1.2/NOPB, LP5907MFX-4.5/NOPB

- 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 you can contact your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW PCN Team	PCN_ww_admin_team@list.ti.com

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