



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20240301000.1

**Qualification of RFAB as an additional Fab site option for select LBC9 devices
Change Notification / Sample Request**

Date: March 04, 2024

To: MOUSER 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 and approval of this 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 change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

Change Management Team
SC Business Services

20240301000.1
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LMR51420XDDCR	NULL
LMR51420XFDDCR	NULL
LMR51420YDDCR	NULL
LMR51420YFDDCR	NULL
LMR51430XDDCR	NULL
LMR51430XFDDCR	NULL
LMR51430YDDCR	NULL
LMR51430YFDDCR	NULL

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

PCN Number:	20240301000.1	PCN Date:	March 04, 2024
Title:	Qualification of RFAB as an additional Fab site option for select LBC9 devices		
Customer Contact:	Change Management Team	Dept:	Quality Services
Proposed 1st Ship Date:	June 02, 2024	Sample requests accepted until:	April 03, 2024*

***Sample requests received after April 03, 2024 will not be supported.**

Change Type:

<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input checked="" type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Material
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of its RFAB fabrication facility as an additional Wafer Fab source for the selected devices listed in the "Product Affected" section.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
DMOS6	LBC9	300mm	RFAB	LBC9	300mm

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:

Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
DMOS6	DM6	USA	Dallas
RFAB	RFB	USA	Richardson

Sample product shipping label (not actual product label):

Product Affected:

LMR51420XDDCR	LMR51420YDDCR	LMR51430XDDCR	LMR51430YDDCR
LMR51420XFDDCR	LMR51420YFDDCR	LMR51430XFDDCR	LMR51430YFDDCR

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: LMR51430XDDCR	QBS Reference: TPS22995HQDDCRQ1	QBS Reference: BQ79616HPAPRQ1	QBS Reference: LMR51430XDDCR	QBS Reference: TPS563249DDCR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	3/231/0	3/231/0	-	3/231/0
UHASt	A3	Autoclave	121C/15psig	96 Hours	-	3/231/0	3/231/0	-	-
UHASt	A3	Unbiased HAST	130C/85%RH	96 Hours	-	-	-	-	3/231/0
TC	A4	Temperature Cycle	-55C/150C	1000 Cycles	-	3/231/0	-	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	-	3/231/0	-	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	3/231/0	3/135/0	-	-
HTSL	A6	High Temperature Storage Life	170C	420 Hours	-	-	-	-	3/231/0
HTSL	A6	High Temperature Storage Life	175C	500 Hours	-	-	3/135/0	-	-

Type	#	Test Name	Condition	Duration	Qual Device: LMR51430XDDCR	QBS Reference: TPS22995HQDDCRQ1	QBS Reference: BQ79616HPAPRQ1	QBS Reference: LMR51430XDDCR	QBS Reference: TPS563249DDCR
HTOL	B1	Life Test	125C	1000 Hours	1/77/0	1/77/0	3/231/0	1/77/0	1/77/0
ELFR	B2	Early Life Failure Rate	125C	48 Hours	-	-	3/2400/0	-	-
SD	C3	PB Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	1/15/0	-	-	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	1/15/0	-	-	-
PD	C4	Physical Dimensions	Cpk>1.67	-	-	3/30/0	3/30/0	-	-
ESD	E2	ESD CDM	-	1500 Volts	1/3/0	-	-	1/3/0	3/9/0
ESD	E2	ESD HBM	-	4000 Volts	1/3/0	-	-	1/3/0	3/9/0
LU	E4	Latch-Up	Per JESD78	-	1/3/0	1/6/0	1/6/0	1/3/0	3/15/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	3/90/0	3/90/0	1/30/0	1/30/0
FTY	E6	Final Test Yield	-	-	1/1/0	-	-	1/1/0	3/3/0

- QBS: Qual By Similarity
- Qual Device LMR51430XDDCR is qualified at MSL1 260C
- Qual Device LMR51430XFDDCR is qualified at MSL1 260C
- Qual Device LMR51430YDDCR is qualified at MSL1 260C
- Qual Device LMR51430YFDDCR is qualified at MSL1 260C
- Qual Device LMR51420XDDCR is qualified at MSL1 260C
- Qual Device LMR51420XFDDCR is qualified at MSL1 260C
- Qual Device LMR51420YDDCR is qualified at MSL1 260C
- Qual Device LMR51420YFDDCR is qualified at MSL1 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/>

TI Qualification ID: R-NPD-2206-016

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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