



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20160823000
Qualification of RFAB for Select LBC8 Devices
Change Notification / Sample Request

Date: 8/30/2016
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.

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 Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

20160823000
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
AFE4404YZPT	null

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

PCN Number: 20160823000 **PCN Date:** 08/30/2016

Title: Qualification of RFAB for Select LBC8 Devices

Customer Contact: [PCN Manager](#) **Dept:** Quality Services

Proposed 1st Ship Date: 11/30/2016 **Estimated Sample Availability:** Date provided at sample request.

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

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 devices listed in the "Product Affected" section.

Current Site			Additional Site		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
DP1DM5	LBC8	200 mm	RFAB	LBC8	300 mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Capacity increase

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

None

Changes to product identification resulting from this PCN:

Current			
Chip Sites	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
DP1DM5	DM5	USA	Dallas
New			
Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
RFAB	RFB	USA	Richardson

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:

AFE4404YZPR AFE4404YZPT

Qualification Report

AFE4404YZP (WCSP) at TI-CLARK and RFAB Approve Date 04-Aug-2016

Product Attributes

Attributes	Qual Device: AFE4404YZP	QBS Product Reference: AFE4404YZP	QBS Process Reference: SH8350BCA0PAPG4_TIPI	QBS Package Reference: TPA2010D1YZF	QBS Package Reference: TPA4411YZH
Assembly Site	CLARK-AT	CLARK-AT	PHI	CLARK-AT	TI-Clark
Package Family	WCSP	WCSP	HTQFP	WCSP	WCSP
Wafer Fab Supplier	RFAB	DMOS5	RFAB	MIHO8	DLN
Wafer Process	LBC8LV	LBC8LV	LBC8LV	A12	LBC3S

- QBS: Qual By Similarity
- Qual Device AFE4404YZP is qualified at LEVEL1-260CG

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: AFE4404YZP	QBS Product Reference: AFE4404YZP	QBS Process Reference: SH8350BCA0PAPG4_TIPI	QBS Package Reference: TPA2010D1YZF	QBS Package Reference: TPA4411YZH
AC	Autoclave 121C	96 Hours	-	-	3/231/0	-	-
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	Pass	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	3/231/0	1/76/0
HBM	ESD - HBM	1500 V	1/3/0	-	-	-	-
CDM	ESD - CDM	1500 V	1/3/0	1/3/0	1/5/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	3/224/0	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	3/231/0	1/77/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	3/231/0	1/77/0
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	3/48/0	-	-
PD	Physical Dimensions	--	-	-	-	3/15/0	1/5/0
SBS	Bump Shear	Unstressed	-	-	-	3/150/0	1/50/0
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	-	3/231/0	1/77/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	1/77/0

- 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

Qualification Report

SN1502019YZP (WCSP) at TI-CLARK and RFAB Approve Date 04-Aug-2016

Product Attributes

Attributes	Qual Device: SN1502019YZPR	QBS Product Reference: AFE4404YZP	QBS Process Reference: SH8350BCA0PAPG4_TIPI	QBS Package Reference: TPA2010D1YZF	QBS Package Reference: TPA4411YZH
Assembly Site	CLARK AT	CLARK-AT	PHI	TI-Clark	TI-Clark
Package Family	WCSP	WCSP	HTQFP	WCSP	WCSP
Wafer Fab Supplier	RFAB	DMOS5	RFAB	MIHO8	DLN
Wafer Process	LBC8LV	LBC8LV	LBC8LV	3370A12	LBC3S

- QBS: Qual by Similarity
- Qual Device SN1502019YZPR is qualified at LEVEL1-260CG

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: SN1502019YZPR	QBS Product Reference: AFE4404YZP	QBS Process Reference: SH8350BCA0PAPG4_TIPI	QBS Package Reference: TPA2010D1YZF	QBS Package Reference: TPA4411YZH
AC	Autoclave 121C	96 Hours	-	-	3/231/0	-	-
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	Pass	Pass	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	3/231/0	1/76/0
HBM	ESD - HBM	1500 V	-	1/3/0	-	-	-
CDM	ESD - CDM	1500 V	-	1/3/0	1/5/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	3/224/0	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	3/231/0	1/77/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	3/231/0	1/77/0
LU	Latch-up	(per JESD78)	-	1/6/0	3/48/0	-	-
PD	Physical Dimensions	--	-	-	-	3/15/0	1/5/0
SBS	Bump-Shear	Unstressed	-	-	-	3/150/0	1/50/0
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	-	3/231/0	1/77/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	1/77/0

- 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
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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
Japan	PCNJapanContact@list.ti.com