



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20150318001

**Qualification of JCAP China as an alternate Bump, Assembly, and Test Site for select
WCSP Devices
Change Notification / Sample Request**

Date: 3/19/2015
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.

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 changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

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

20150318001
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
OPA2347YZDR	null
OPA2347YZDT	null
TMP106YZCR	null
TMP106YZCT	null

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

PCN Number:	20150318001		PCN Date:	03/19/2015	
Title:	Qualification of JCAP China as an alternate Bump, Assembly, and Test Site for select WCSP Devices				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	06/19/2015	Estimated Sample Availability:	Date provided upon request		
Change Type:					
<input checked="" 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 checked="" 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 type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change		
PCN Details					
Description of Change:					
<p>Texas Instruments is pleased to announce the qualification of JCAP China as an alternate Bump, Assembly, and Test site for the devices shown below. The material set will be the same between the 2 sites.</p> <p>Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.</p>					
Reason for Change:					
Continuity of Supply					
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):					
None					

Changes to product identification resulting from this PCN:		
Assembly Site		
Amkor Taiwan	Assembly Site Origin (22L)	ASO: AM3
JCAP China	Assembly Site Origin (22L)	ASO: JCP
Sample product shipping label (not actual product label)		
 MADE IN: Malaysia 2DC: 20: MSL 2 /260C/1 YEAR SEAL DT MSL 1 /235C/UNLIM 03/29/04 OPT: ITEM: 39 LBL: 5A (L)T0:1750		(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
Topside Device marking:		
Assembly site code for AM3= 3		
Assembly site code for JCP= C		

Product Affected

OPA2347YZDR	OPA2347YZDT	TMP106YZCR	TMP106YZCT
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TI Information
Selective Disclosure

Qualification Report

Offload of the OPA2347YZD 150mm WCSP from Amkor K4 to JCAP
turnkey
Approved 02/16/2015

Product Attributes

Attributes	Qual Device: OPA2347YZD	QBS Product: OPA2347YED	QBS Process: TMP105YZC	QBS Package: CD3239
Assembly Site	JCAP	UEI-NC	JCAP	JCAP
Package Family	DSBGA	DSBGA	DSBGA	DSBGA
Flammability Rating	UL94V-0	UL-94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	TSMC	TSMC	TSMC	DMOS5
Wafer Fab Process	0.6um DPDM	0.6um DPDM	0.5um DPTM	50HPA07HV

- QBS: Qual By Similarity
- Qual Device OPA2347YZD is qualified at L1, 260C

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: OPA2347YZD	QBS Product: OPA2347YED	QBS Process: TMP105YZC	QBS Package: CD3239
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0
AC	Autoclave 121C	96 Hours	-	3/231/0	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	3/231/0	-	3/231/0	3/231/0
TC	Temperature Cycle, -40/125C	500 Cycles	-	3/230/0	-	-
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	-	3/230/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	3/135/0	3/221/0	-
HTOL	Life Test, 150C	300 Hours	-	3/231/0	3/230/0	3/231/0
PD	Physical Dimensions	Per Mechanical drawing	-	-	-	3/15/0
HBM	ESD HBM	2000 V	-	1/3/0	1/3/0	-
CDM	ESD CDM	1000 V	-	1/3/0	1/3/0	-
LU	Latch-up	(per JESD78)	-	1/6/0	1/6/0	-
ED	Electrical Characterization	Per Datasheet Parameters	-	3/30/0	-	-
SBS	Bump Shear	Unstressed (50 bumps)	3/150/0	-	3/150/0	-

- 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

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