



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20141024001
Qualification of Amkor T-5 as Alternate Bump Site
for selected products in FCBGA package
Change Notification / Sample Request

Date: 10/29/2014
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
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20141024001
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
TMS320C6457CCMH2	null

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

PCN Number:	20141024001			PCN Date:	10/29/2014
Title:	Qualification of Amkor T-5 as Alternate Bump Site for selected products in FCBGA package				
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037	Dept:	Quality Services
Proposed 1st Ship Date:	01/29/2015	Estimated Sample Availability:		Date provided upon request	
Change Type:					
<input type="checkbox"/>	Assembly Site	<input checked="" type="checkbox"/>	Assembly Process	<input checked="" 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 checked="" 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:					
Qualification of Amkor as an alternate backend assembly and test site. Material/construction differences are noted below:					
	DBUMP		Amkor T-5		
Passivation	PBO		Polyimide		
UBM	TiW sputter/Cu Sputter/Cu plate/Ni plate		TiW sputter/Cu sputter/Ni plate		
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:					
None					
Product Affected					
TMS320C6457CCMH2	TMS320C6457CGMHA2	TMS320TCI6484CMH	TMS32TCI6484CCMHVP		
TMS320C6457CCMHA2	TMS320TCI6484CCMH2	TMS320TCI6484GMH			
TMS320C6457CGMHA	TMS320TCI6484CGMH	TMS320TCI648FCMH			

Qualification Report

Faraday DM6/ SnAg (Pb-free) Amkor T5+T3 / Namics 8410-73A UF / Cookson WS3018 water soluble flux

Approved 03/01/2011

Product Attributes

Attributes	Qual Device: Faraday
Assembly Site	PHI (TIPI)
Package Family	FCBGA
Flammability Rating	UL 94 V-0
Wafer Fab Site	DMOS6
Wafer Fab Process	C021.A

- QBS: Qual By Similarity

- Qual Device AMKOR BUMP CUN DC IBIDEN SOP is qualified at LEVEL4-245C

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: Faraday
PC	PreCon Level 4	EEP/25C/105C	3/383/0
THB	Biased Temperature and Humidity, 85C/85%RH	600/25C/105C	3/78/0
AC	Autoclave 121C	96/25C/105C	3/75/0
UHA	Unbiased HAST 110C/85%RH	264/25C/105C	3/189/0
TC	Temperature Cycle, -55/125C	1000/25C/105C	3/78/0
HTSL	High Temp Storage Bake 150C	1000/25C/105C	3/235/0

- 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