

RUMENTS 12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20070809002 Ceramic Hermetic Flipchip seal process change Final Change Notification / Sample Request

Dear Customer:

This is an announcement of change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

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.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. If you require samples to conduct an evaluation, please make any request within the 30 days—samples are not built ahead of the change. Please see the schedule on the following pages for availability dates. You may contact the PCN Manager or your local Field Sales Representative to acknowledge this PCN and request samples.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification. This notification period is per TI's standard process. Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

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: (214) 480-6037 Fax: (214) 480-6659

PCN Number:			20070809002					PCN Date:		08/17/2007		
Title: Ceramic Hern			netic Flipchip seal process change									
Customer Contact:			PCN Manager		Phone:		(214) 480-6037		Dept:	Quality Services		
Proposed 1 st Ship Da			te:		11/17/2007 Estimated Sam			ple Availability:			10/31/2007	
Change Type:												
Assembly Site			\boxtimes	Assembly Process			Assembly	Mat	erials			
Design				Electrical Specification			Mechanic	al Sp	ecification			
Test Site					Packing/Shipping/Labeling			Test Process				
■ Wafer Bump Site				Wafer Bump Material			Wafer Bump Process					
■ Wafer Fab Site				Wafer Fab Materials			Wafer Fab Process					

PCN Details

Description of Change:

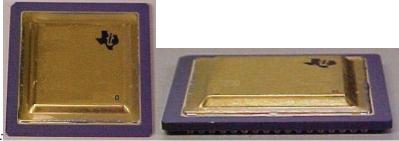
Changing from a AuSn solder seal process to a parallel seam seal welding process.

Reason for Change:

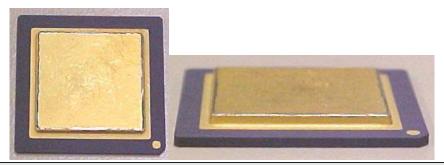
To provide a more robust sealing process that also reduces assembly cycle time and allows the current assembly subcon (Kyocera San Diego) to provide a turnkey assembly solution.

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

Form: visual appearance changes slightly. The old version has a top-hat lid that has sloped lid design whereas the new version lid is perpendicular to the substrate in design.



Change From:



Change To:

Changes to product identification resulting from this PCN:

None.

Product Affected:

5962-9866101VXA	SM320C6701GLPS16	SM320C6201BGLPW15		
5962-9866102VXA	SM320C6701GLPW14	SMJ320C6701GLPW14		
SMJ320C6201BGLPW15	SMJ320C6203GLPM20			
SM320C6203GLPM20	SM320C6201BGLPS20			

Qualification Data:

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.					
Qualification Schedule:	Start:	02/2007	End:	08/2007	
Qualification Device Constru					
		Qual Vehicle			
	Device:	SMC6701GLPW14			
Waf	er Fab:	DP1DM5			
Wafer Tech	nology:	DSP			
D	ie Size:	459 X 444 mils			
	ly Site:	Kyocera San Diego			
Package Type		Ceramic Flipchip / GLP			
	ge Pins:	429 CBGA SnPbBi spheres			
Mold Com		N/A			
Mold Compound St		N/A			
	ostrate:	4207695-0001 (429 CBGA)			
·	osition:	Al_2O_3			
	Attach:	SnPb solder bumps & underfill			
Die Attach Si		N/A			
Moisture	Not Rated - Package is Hermetic				
Qualification:	Test Re	esults			
Reliability Test	ns		Sample Size (PASS/FAIL)		

Qualification: Plan Test Results						
Reliability Test	Conditions	Sample Size (PASS/FAIL)				
D3 - D3 Sequence	MIL-PRF-38535 Grp D3	15/0				
D4 – D4 Sequence	MIL-PRF-38535 Grp D4	15/0				
IW - Internal Water Vapor	Method 1018 Grp D6	3/0				
PD - Physical Dimensions	Method 2016	15/0				
MF - Manufacturability	(Per applicable A/T, W/F Reqm'ts)	1 lot/0				
VM - Visual Mechanical	Method 2009	1 lot/0				
XR - X-ray (1)	X-Ray will be replace with Cross-sections	5/0				
Thermal Shock	-65C/150C, 100cyc	25/0				
Notes: Qualification tests "pass" on zero fails for each test						

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