PCN Number:		201	20130814001						PCN Date:		08/26/2013
Title:	Title: Add Cu as Alternative Wire Base Metal for Selected Device(s)										
<b>Customer Contact:</b>		PCN Manager		Phon	ne:	+1(214)480-6037		037	Dept:	Quality Services	
Proposed 1 <sup>st</sup> Ship Da		<b>te:</b> 11/26/2013		Est	Estimated Sample Avail		vaila	3 DILITY!		provided at ple request	
Change Type:					-						
Assembly Site		Σ	Proces					ssembly Materials			
Design			Electrical Specification					echanical Specification			
☐ Test Site			Packing/Shipping/Labeling			Test Process					
☐ Wafer Bump Site			Wafer Bump Material			<u> </u>	Wafer Bump Process				
☐ Wafer Fab Site				Wafer Fab Materials			Ш	Wafer Fab Process			5
				Part number change							
PCN Details											
Description of Change:											
Texas Instruments is pleased to announce the qualification of Cu as an additional bond wire option for devices listed in "Product affected" section below. Devices will remain in current assembly facility and there will be no other piece part changes.											
Reason for Change:											
Continuity of supply.											
1) To align with world technology trends and use wiring with enhanced mechanical and											
electrical properties											
<ul><li>2) Maximize flexibility within our Assembly/Test production sites.</li><li>3) Cu is easier to obtain and stock</li></ul>											
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):											
None.											
Changes to product identification resulting from this PCN:											
None.											
Product Affected: Group 1 devices											
DAC34H84IZAY DAC34H84IZAYF				DAC34SH84IZAY DAC34SH84IZAYR							
Product Affected: Group 2 devices											
CSD95375Q4M CSD97374Q4M CSD97376Q4M											

Group 1 : Qualification Data								
This qualification has been developed for the validation of this change. The qualification data								
validates that the proposed change meets the applicable released technical specifications.								
Qual Vehicle 1: D6567GN0ZWKR (MSL 3-260C)								
Package Construction Details								
Assembly Site:	PHI (TIPI)	-			4206745			
# Pins-Designator, Family:	385-ZWK, BGA Mount Compound:		40735	4073505				
Solder Ball composition	SnAgCu Bond Wire:		0.80Mil Cu					
Qualification:	<b>☒</b> Test Results							
De lie hillion Took	Com dittions	Conditions		Sample Size/Fail				
Reliability Test	Conditions			Lot#2	Lot#3			
**Biased Temp Humidity	85C/85%RH (6	85C/85%RH (600hrs)			-			
**Unbiased HAST		110C/85%RH (264hrs)			78/0			
**High Temp. Storage Bake	150C (600 hrs	150C (600 hrs)			78/0			
**T/C -65C/150C	-55C/+125C (	78/0	78/0	78/0				
Manufacturability	(per mfg. Site	Pass	Pass	Pass				
Notes **- Preconditioning sequence: Level 3-260C.								
Qual Vehicle 2: DAC34H84IZAY (MSL 3-260C)								
Package Construction Details								
Assembly Site:	PHI (TIPI)			4206745				
# Pins-Designator, Family:	196-ZAY, BGA Mount Compound:		4073505					
Solder Ball composition	SnAgCu Bond Wire:		0.95Mil Au					
Qualification:   Plan   Test Results								
Poliability Tost	Conditions	Conditions		Sample Size/Fail				
Reliability Test	Conditions			Lot#2	Lot#3			
**Autoclave	121C, 2atm (9	121C, 2atm (96hrs)			77/0			
** Life Test	125C (1000hrs	125C (1000hrs)			116/0			
**Unbiased HAST	110C/85%RH	110C/85%RH (264hrs)			77/0			
**T/C -65C/150C	-55C/+125C (	-55C/+125C (500 Cyc)			77/0			
Manufacturability		(per mfg. Site specification)			Pass			
Notes **- Preconditioning sequence: Level 3-260C.								

Group 2 : Qualification Data							
This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.							
Qual Vehicle 1: CSD97374Q4M (MSL 2-260C)							
Package Construction Details							
Assembly Site:	TI Clark	Mold Compound:	420862	4208625			
# Pins-Designator, Family	: 8-DPC, VSON	Mount Compound: 4211		11089			
Lead frame (Finish, Base)	NiPdAu, Cu	Bond Wire:	0.96Mi	0.96Mil Cu			
Qualification:   Plan   Test Results							
Poliphility Tost	Conditions		Sample Size/Fail				
Reliability Test			Lot#1	Lot#2	Lot#3		
**Autoclave	121C/100% RH (96h	77/0	77/0	77/0			
**Biased HAST	130C/85%RH 80% R	77/0	77/0	77/0			
**T/C -65C/150C	-55C/+125C (1000 C	77/0	77/0	77/0			
Manufacturability	(per mfg. Site specifi	Pass	Pass	Pass			
Notes **- Preconditioning sequence: Level 2-260C.							

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