PCN Number:	20130218001 PCN Date: 03					3/25/2013			
Title: DM6 U*BGA Cu Wire Bond conversion for 90nm and 120nm products									
Customer Contact: PCN_ww_a	_ww_admin_team@list.ti.com								
Proposed 1 st Ship Date: 06/25/2013				Estimated Sample Availability:			Date provided at sample request.		
Change Type:									
☐ Assembly Site ☐ Assembly Process ☐ Assembly Materials							ials		
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. See table below:									
	Assembly	Cu	Bond	wire					
Material Set	ı wire	option							
Wire diam (Mils)	Wire diam (Mils) 0.96								
Reason for Change:									
Continuity of supply.1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties2) Maximize flexibility within our Assembly/Test production sites.3) Cu is easier to obtain and stock									
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):									
None.									
Changes to product in	lentific	ation resulti	ng f	rom th	nis PCN:				
None.									
Product Affected:									
D35004AZGW160	TMS320DM100ZJJR		Т	MS320\	VC5506GHH	TMS32	TMS320VC5510AZGW1		
D35004AZGWA200	TMS320DM270ZHK-K				VC5506ZHHI		TMS320VC5510AZGWD2		
D751685AM3ZZAR	TMS320DM299DZJJ		Т	MS320\	VC5507ZHH	TNET	TNETV2510ENGGWR		
D751685AZZAR	TMS320DM299ZJJR		T	MS320\	VC5507ZHH	R TNET\	R TNETV2510GGWR		
D761924ZGUR	TMS320SP109AZHH		T	MS320\	VC5509AGH	HR			
OMAP5910JGZG2	TMS320VC5503GHH		Т	TMS320VC5510AGPHA2					
Qualification Data: Approved 11/29/2010									
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.									
Qual Vehicle 1: D6567GN0ZWKR (MSL 3-260C)									
Package Construction Details									
Assembly Site:	PHI (TIPI)		Mold Compound:				4206745		
	Pins-Designator, Family: 385-ZWK, BG		_		Compound		4073505		
Solder Ball composition		SnAgCu		Bond W	Vire:	0.80Mil Cu			

Qualification:	\geq	Test Results							
Reliability Test		Conditions			Sample Size/Fail				
					Lot#1	Lot#2	Lot#3		
**Biased Temp Humidity		85C/85%RH (600hrs)			78/0	-	-		
**Unbiased HAST		110C/85%RH (264hrs)			78/0	78/0	78/0		
**High Temp. Storage Bake		150C (600 hrs)			78/0	78/0	78/0		
**T/C -65C/150C		-55C/+125C (1	000 Cyc)		78/0	78/0	78/0		
Manufacturability		(per mfg. Site specification)			Pass	Pass	Pass		
Notes **- Preconditioning	sec	juence: Level 3-260C.							
Qual Vehicle 2: F761536ZZD (MSL 3-260C)									
		Package Con	struction Details						
Assembly Site:	PH	HI (TIPI) Mold Compound:			4203565				
# Pins-Designator, Family:	17	79-ZZD, BGA Mount Compound:			4111062				
Solder Ball composition	Sr	nAgCu	Bond Wire:		0.80Mil Au				
Qualification: Plan Test Results									
Reliability Test		Conditions		Sample Size/Fail					
					Lot#1	Lot#2	Lot#3		
** Biased HAST		110C/85%RH, 264 hrs			70/0	70/0	70/0		
** Unbiased HAST		130C/85%RH (192hrs)			98/0	99/0	99/0		
** Unbiased HAST		110C/85%RH (192hrs)			97/0	97/0	96/0		
**High Temp. Storage Bake		150C (1008 hrs)			96/0	97/0	97/0		
**T/C -65C/150C		-55C/+125C (1000 Cyc)			101/0	103/0	101/0		
Notes **- Preconditioning sequence: Level 3-260C.									
Qual Vehicle 3: TSB43DA42AGHC (MSL 3-260C)									
Package Construction Details									
Assembly Site:	Pŀ	HI (TIPI)	Mold Compound:		4203565				
# Pins-Designator, Family:	19	96-GHC, BGA	Mount Compound:		4111062				
Solder Ball composition	on SnAgCu		Bond Wire:	0.80Mil Cu					
Qualification: Plan	\geq	Test Results							
Reliability Test		Conditions			Sample Size/Fail				
					Lot#1 Lot#2		Lot#3		
**High Temp. Storage Bake		150C (1008 hrs)			90/0	90/0	90/0		
**Biased Temp and Humidity		85C/85%RH (600hrs)			77/0	77/0	77/0		
** Unbiased HAST		130C/85%RH (192hrs)			90/0	90/0	90/0		
**T/C -65C/150C		-55C/+125C (1000 Cyc)			110/0	110/0	110/0		
Notes **- Preconditioning sequence: Level 3-260C.									

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