PCN Number:			20150227000					PCN Da	te:	03/02/2015			
Title: Qualification Devices		of T	of TI Clark as an Alternate Assembly Site with Cu Bond wire for select QFN										
Customer Contact:			PCN Manager Dept: Q			Quality Services							
Proposed 1 st Ship Da			ote: 06/02/2015			Estimated Sample Availa			vailability: Provided upon Request		•		
Cha	ange	Туре:											
\boxtimes	Asse	mbly Site		X	Assembly Process			\boxtimes	Ass	Assembly Materials			
	Desi	gn			Electrical Specification				Mechanical Specification				
	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					
			Part number change										
<u> </u>	PCN Details												
Des	Description of Change:												
Texas Instruments is pleased to announce the qualification of TI Clark as an alternate Assembly site for select devices in the QFN package. Construction differences between devices assembled at the existing and new site are noted below:													

	TI Malaysia	TI Clark
Mount Compound	4205846	4207768
Bond Wire Composition/Diameter	Au, 0.96 mils	Cu, 0.8 mils

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 TI Malaysia Assembly Site Origin (22L) ASO: MLA TI Clark Assembly Site Origin (22L) ASO: QAB Sample product shipping label (not actual product label)





(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483SI2 (P) (2P) REV: (V) 0033317 (2DL) CSO: SHE (21L) CCO: USA (22L) ASO: MLA (23L) ACO: MYS

Topside Device marking:

Assembly site code for MLA= K
Assembly site code for QAB= I

Product Affected								
CDCL1810ARGZR	CDCL1810RGZRG4	CDCL1810RGZTG4	CDCL6010RGZRG4					
CDCL1810ARGZT	CDCL1810RGZT	CDCL6010RGZR	CDCL6010RGZT					
CDCL1810RGZR								



TI Information Selective Disclosure

Qualification Report

CDCL6010RGZ: Cu wire qualification Approved 01/20/2015

Product Attributes

Attributes	Qual Device: CDCL6010RGZ	QBS Product: CDCL6010RGZ	QBS Process: THS4302RGT	QBS Process: ADS6442IRGC	QBS Package: SN1108041RHR
Assembly Site	TI_CLARK	MLA	CAR	MLA	CLARK-AT
Package Family	QFN	QFN	QFN	QFN	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	DMOS5	DMOS5	FFAB	DMOS5	RFAB
Wafer Fab Process	1833C05	1833C05	BICOM3X	1833C05	1833C05.25.LRKD

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: CDCL6010RGZ	QBS Product: CDCL6010RGZ	QBS Process: THS4302RGT	QBS Process: ADS6442IRGC	QBS Package: SN1108041RHR
AC	Autoclave 121C	96 Hours	1/77/0	-		1/77/0	1/77/0
UHAST	Unbiased HAST 130C/85%RH	96 Hours	1/77/0	-	3/78/0		-
HAST	Biased HAST, 130C/85%RH	96 Hours				1/77/0	
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	-	3/78/0	1/77/0	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	1/77/0	-	3/78/0	1/77/0	-
TS	Thermal Shock - 65/150C	500 Cycles			3/78/0	1/77/0	
HTOL	Life Test, 125C	1000 Hours			3/120/0	1/77/0	
WBS	Ball Bond Shear	Wires	-	-			1/76/0
WBP	Bond Pull	Wires	-	-			1/76/0
HBM	ESD - HBM	2000 V	1/6/0	1/3/0			-
CDM	ESD - CDM	1000 V	1/3/0	-			-
LU	Latch-up	(per JESD78)	1/6/0	1/6/0			-
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass			Pass

⁻ Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

⁻ QBS: Qual By Similarity - Qual Device CDCL6010RGZ is qualified at LEVEL3-260C

- 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
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