											1
PCN Number:		201	140	0930003					PCN Date: 10/01/20		10/01/2014
Title:Qualification of Amkor Philippines as an Additional Assembly and Test location for Select Devices in the SOIC package											
Customer Contact: PCN		N Manager		Phone:	+1(214)480-6037			Dept:	Quality Services		
Proposed 1 st Ship Date:			01/01/2015 Estimated Sample Av			Availa	ailability: Date provided upon request				
Change	Туре:										
Asse	mbly Site		Assembly Process			\boxtimes	Assembly Materials				
	Design		Electrical Specification				Mec	1echanical Specification			
🛛 Test				Packing/S					Test Process		
	er Bump Site		Wafer Bump Material						afer Bump Process		
Wafe	er Fab Site			Wafer Fab				Wafe	Wafer Fab Process		
				Part numb							
					PCN De	etails					
Descript	ion of Chang	je:									
Assembly and Test location for the devices listed below. Assembly material differences are noted below:											
Mount Compound		bd	ASEH SID#EY1000063			63	Amkor Philippines SID#101374994				
Mount Compound Mold Compound			SID#E11000003			SID#101379294					
Mola Compound			310 # EN2000303					.0#101	5752		
Test cove test MQ.	erage, insertio	ons, c	on	ditions will	remain co	onsistent wit	h cu	urrent	testing	and v	verified with
Reason	for Change:										
Continuity of Supply											
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):											
None											
Changes	to product	ident	tifi	cation res	ulting fr	om this PC	N:				
	• • • • • • • •		-								
Assemb	ly Site										
ASE Shanghai				Assembly Site Origin (2			n (22Ľ)	AS	O: ASH	
AMKOR					Assembly Site Origin (22L)					O: AKR	
							•			L	

Sample product shipping label (not actual product label)



Topside Device ma Assembly site code for Assembly site code for	or ASH= A		
Product Affected			
905X5433200	TPS54227DDAR	TPS54332CDDA	TPS54527DDAR
HPA01123DDAR	TPS54228DDA	TPS54332CDDAR	TPS54528DDA
SN1101004DDAR	TPS54228DDAR	TPS54332DDA	TPS54528DDAR
SN1101005DDAR	TPS54229DDA	TPS54332DDAR	TPS54627DDA
SN1106041DDAR	TPS54229DDAR	TPS54335DDA	TPS54627DDAR
SN1110024DDAR	TPS54229EDDA	TPS54335DDAR	TPS54628DDA
SN1208017DDAR	TPS54229EDDAR	TPS54428DDA	TPS54628DDAR
SN54229EDDAR	TPS5432DDA	TPS54428DDAR	TPS56628DDA
TPS54227DDA	TPS5432DDAR	TPS54527DDA	TPS56628DDAR



TI Information Selective Disclosure

Qualification Report

Amkor: Qualify Amkor Assembly (AP1) with 101379294 mold compound, 101374994 mount compound + Cu wire (2.0 MIL) on PWR DCS SOIC devices with BOAC Approval 09/18/2014

Product Attributes

Attributes	Qual Device: TPS54327DDA	Qual Device: TPS54627DDA
Assembly Site	AMKOR AP1	AMKOR AP1
Package Family	SOIC	SOIC
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Site	RFAB	RFAB
Wafer Fab Process	LBC7	LBC7

- QBS: Qual By Similarity

- Qual Devices qualified at LEVEL2-260C: TPS54327DDA, TPS54627DDA

Qualification Results

Туре	Test Name / Condition	Duration	Qual Device: TPS54327DDA	Qual Device: TPS54627DDA
	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	3/231/0	-
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0
TC-BP	Auto Post Temp. Cycle Bond Pull	per MIL-STD 883 Method 2011	3/15/0	3/15/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/229/0	-
ED	Electrical Characterization.	Per Datasheet Parameters	1/30/0	-
FLAM	Flammability (UL 94V-0)		3/15/0	-

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

- 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