PCN Number:		201	20160322000A				P	CN Date:	Sept 0	6, 2016	
Title: Qualify TI Ch		Chengo	engdu (CDAT) as an additional Assembly & Test site for select devices								
Customer Contact:		PCN	PCN Manager								
Change Type	e:										
Assembly	Site		Assemb	oly Proce	ess				Assembl	ly Materia	als
Design			Electric	Electrical Specification				Mechanical Specification			
			Packing	g/Shippir	ng/La	abeling		Test Process			
Wafer Bu				Wafer Bump Material				Wafer Bump Process			
Wafer Fa	b Site		Wafer F	Wafer Fab Materials				Wafer Fab Process			
			Part nu	mber ch							
				PCN	l De	tails					
Description											
Revision A is to remove select devices in the Product Affected Section (with strikethrough) and highlighted in yellow. These devices were inadvertently added and not affected by this change. Texas Instruments is pleased to announce the qualification of TI Chengdu (CDAT) as an additional Assembly & Test site for the list of devices shown below. Material differences as follows:											
Assembly	y Site	Asse	embly Site	Origin	Ass	sembly C	oun	try	y Code	Assen	ibly City
TI Cla	rk		QAB			Pl	ΗL			Ange	les City
TI Chen	gdu		CDA			CI	IN			Che	engdu
Material Diff	erence	s:									
			TI Clark			TI Chengdu					
	Mot	ınt Co	npound		4207	7768		42071		23	
			•		4208	3625		42221		98	
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ. Reason for Change:											
Continuity of Supply											
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):											
None											
Anticipated impact on Material Declaration											
No Impact to the Material Declaration		_	release. Upon production release the revised reports can be obtained from the <u>TI ECO website</u> .								
Changes to product identification resulting from this PCN:											
Assembly Cite											
Assembly Site			Accombly Site Origin (221) ASO: OAP								
TI Clark Philippines TI Chengdu			Assembly Site Origin (22L) ASO: QAB Assembly Site Origin (22L) ASO: CDA								



Qualification Report

TPS22966DPUR Qual at TI Chengdu

Approve Date 18-Mar-2016

Product Attributes

1 Todast / ttt ibatos						
Attributes	Qual Device: TPS22966DPUR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: MSP430F5528IRGC			
Assembly Site	CDAT	CDAT	UTAC			
Package Family	QFN	QFN	QFN			
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0			
Wafer Fab Supplier	RFAB	RFAB	TSMC F11			
Wafer Fab Process	LBC7	LBC7	TSMC.018 EMB FLASH			

⁻ QBS: Qual By Similarity

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: TPS22966DPUR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: MSP430F5528IRGC
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	
FLAM	Flammability (UL 94V-0)	-	-	-	1/5/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	-

⁻ Qual Device TPS22966DPUR is qualified at LEVEL2-260C

Туре	Test Name / Condition	Duration	Qual Device: TPS22966DPUR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: MSP430F5528IRGC
MSL	Thermal Path Integrity	Level 1-260C	-	3/36/0	-
MSL	Thermal Path Integrity	Level 2-260C	3/36/0	-	-
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	-	-
TC	Temperature Cycle, - 65/150C	500 Cycles	3/231/0	3/231/0	-

⁻ 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 Tl'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