PCN Number:		201	20150115000A PCN Date: 05/05/201					15					
			ion of Additional Fab/Assembly/Test Location for Select Devices in the QFN										
	Package												
Customer Contact:		PCN /	Mar	nager			De	pt:		Qı	Quality Services		
		d 1 st Shij									Da	ate provided	unon
Date			,	04	4/19/2015	Estima	ted San	nple	e Ava	ailability:		quest	upon
		Гуре:											
\boxtimes	_	embly Sit	e	Assembly Pro		Process	cess		\boxtimes	Assembly Materials			
	Des			Electrical Sp			on		Mechanical			ecification	
\boxtimes	Test	: Site			Packing/S	hipping/La	beling		Test Process				
	Waf	er Bump	Site		Wafer Bur	np Materia	al			Wafer Bum	ip Pr	rocess	
\boxtimes	Waf	er Fab Si	te		Wafer Fab	Materials				Wafer Fab	Proc	cess	
					Part numb	er change							
						PCN [Details						
Desc	ript	ion of Ch	nange):									
<mark>Revi</mark>	sion	A is to c	orrect	: th	le change des	<mark>cription of</mark>	the devi	ces	liste	<mark>d below.Th</mark>	e TF	251631RSM	<mark>R/T</mark>
					embly change	only, not	fab as de	escr	ribed	in PCN2015	<mark>011</mark> !	5000. Chang	<mark>jes</mark>
<mark>are h</mark>	ighli	ghted in y	yellow	ı b	<mark>elow.</mark>								
					ed to announ								
					l Miho as an a			or th	ne de	evices listed	belo	w. Device	
const	tructi	ion and fa	abrica	tio	n differences	are noted	below:						
6		D				· · · · / • · · ·							
Group 1 Device List Change Description (Fab & Assembly):													
TI Clark Carsem													
N		Моц	nt	Compound		7768		SID#435143					
					<u></u>								
		Curr	ant Sit	Site/Process/Wafer Diameter Additional Site/Process/V					Process /W	afor	Diameter		
		Curre					Additio	iiai		O/LBC7X/200			
			R	FAt	B/LBC7X/300MI	4				0/LBC/X/200			
Group 2 Device List Change Description (Assembly only):													
GIUU	ih z	Device L		IIa	inge Descript			IIY	/·				
						TI	Clark			Carsem			
			Моц	nt	Compound		7768		S	ID#435143			
Test	cove	rage, inse	ertion	s, (conditions will	remain co	onsistent	wit	:h cu	rrent testing	and	d verified with	າ test
MQ.		J = /		• /						· · · · · · · · · · · · · · · · · · ·	•		
Reason for Change:													
Conti	inuity	y of Supp	IY										
Antie	cipat	ted impa	ct on	Fi	it, Form, Fun	ction, Qu	ality or	Re	liabi	l <mark>ity (positi</mark> v	ve /	negative):	
None	,												
110110													
Char		to prod			tification	aulting fo	om this	DC	NI -				
		-		ier	tification re	suiting fr	om this	PC	111:				_
		y Site				•				(221)			-
	TI Clark Assembly Site Origin (221) ASO: OAB												

Assembly Site Origin (22L)

CARZ

ASO: CSZ

Fab Site]
RFAB		Accomply Site Origin (22		
MIHO		Assembly Site Origin (22 Assembly Site Origin (22		D: RFB
Sample product shippin TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2Q: MSL 2 /260C/1 YEAR SEAL MSL 1 /235C/UNLIM 03/2 OPT: ITEM: 39 LBL: 5A (L)T0:17 Topside Device mark Assembly site code for	G4 DT DT DT DT DT DT DT DT DT DT	product label) (1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY (1T) 75234835 (P) (2P) REV: (V) 003331 (2DL) CS0: SHE (21L) CC0:US (22L) AS0: MLA (23L) AC0: MY	512 7	
Assembly site code f	or CSZ=F			
Product Affected				
Group 1 Device List:				
FX018 TPS51622ARSMR	TPS51622ARSMT	TPS51622RSMR	TPS51622RSMT	
Group 2 Device List: TPS51631RSMR	TPS51631RSMT			

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Qualification Report

TPS51622 Qual for offload to CARZ Approved 12/23/2014

Product Attributes

Attributes	Qual Device: TPS51622RSM RFAB	Qual Device: TPS51622RSM MIHO	QBS Process: TPS62110RSA	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
Assembly Site	CARZ	CARZ	CAR	CARZ	CARZ	CARZ
Package Family	QFN	QFN	QFN	QFN	SON	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	RFAB	MIHO8	MIHO8	MIHO8	RFAB	RFAB
Wafer Fab Process	LBC7	LBC7	LBC7	LBC7	LBC7	LBC7

- QBS; Qual By Similarity - Qual Devices qualified at LEVEL2-260C: TPS51622RSM RFAB, TPS51622RSM MIHO

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

Туре	Test Name / Condition	Duration	Qual Device: TPS51622RSM RFAB	Qual Device: TPS51622RSM MIHO	QBS Process: TPS62110RSA	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
HAST	Biased HAST, 130C/85%RH	96 Hours	-		3/231/0	3/230/0	-	1/79/0
AC	Autoclave 121C	96 Hours	-	1/77/0	3/231/0	3/231/0	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	1/77/0	3/231/0	3/231/0	3/231/0	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	3/231/0	3/231/0	-
TS	Thermal Shock, -65/150C	500 Cycles	-	-	3/231/0	-	-	-
ITOL	Life Test 125C	1000 Hours	-	-	-	-	-	-
ITOL	Life Test, 135C	635 Hours	-	-	-	-	-	-
ITOL	Life Test, 140C	480 Hours	-	-	3/390/0	-	-	-
ITOL	Life Test, 150C	300 Hours	-	-	-	-	3/231/0	-
ELFR	Early Life Failure Rate, 140C	48 Hours	-	-	3/1881/0	-	-	-
WBS	Ball Bond Shear	Wires	1/76/0	1/76/0	-	-	-	-
WBP	Bond Pull	Wires	1/76/0	1/76/0	-	-	-	-
HBM	ESD - HBM	2500 V	-	1/3/0	-	-	-	-
CDM	ESD - CDM	1500 V	-	1/3/0	-	-	-	-
LU	Latch-up	(per JESD78)	-	1/6/0	3/15/0	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	-	-	-	-
The fo The fo The fo Quality Green/	Inditioning was performed for Autoda ollowing are equivalent HTOL option ollowing are equivalent HTSL option ollowing are equivalent HTSL options ollowing are equivalent Temp Cycle of and Environmental data is available Pgb-free Status: ed Pgb-Free(SMT) and Green	s based on an activation energy based on an activation energy options per JESD47 : -55C/125	ny of 0.7eV : 125C/1k Hours, ny of 0.7eV : 150C/1k Hours, a 5C/700 Cycles and -65C/150	140C/480 Hours, 150C/300 H and 170C/420 Hours		Hours		

Qualification Report

TPS51631RSM Qual for offload to CARZ Approved 12/23/2014

Product Attributes

Attributes	Qual Device: TPS51631RSM (1)	QBS Product: TPS51622RSM	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
Assembly Site	CARZ	CARZ	CARZ	CARZ	CARZ
Package Family	QFN	QFN	QFN	SON	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	RFAB	MIHO8	MIHO8	RFAB	RFAB
Wafer Fab Process	LBC7	LBC7	LBC7	LBC7	LBC7

- QBS: Qual By Similarity - Qual Device TPS51631RSM is qualified at LEVEL2-260C

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

Đ	Data Displayed as: Number of lots / Total sample size / Total failed									
Туре	Test Name / Condition	Duration	Qual Device: TPS51631RSM (1)	QBS Product: TPS51622RSM	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR			
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/230/0	-	1/77/0			
AC	Autoclave 121C	96 Hours	-	1/77/0	3/231/0	3/231/0	-			
TC	Temperature Cycle, -65/150C	500 Cycles	-	1/77/0	3/231/0	3/231/0	-			
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	-	-			
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	3/231/0	-			
HTOL	Life Test 125C	1000 Hours	-	-	-	-	-			
HTOL	Life Test, 135C	635 Hours	-	-	-	-	-			
HTOL	Life Test, 150C	168 Hours	-	-	-	3/231/0	-			
HTOL	Life Test, 150C	300 Hours	-	-	-	3/231/0	-			
WBS	Ball Bond Shear	Wires	1/76/0	1/76/0	-	-	-			
WBP	Bond Pull	Wires	1/76/0	1/76/0	-	-	-			
HBM	ESD - HBM	2500 V	-	1/3/0	-	-	-			
CDM	ESD - CDM	1500 V	-	1/3/0	-	-	-			
LU	Latch-up	(per JESD78)	-	1/6/0	-	-	-			
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	-	-	-			

 ED
 Electrical Characterization
 Per Datasheet Parameters
 Pass

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

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