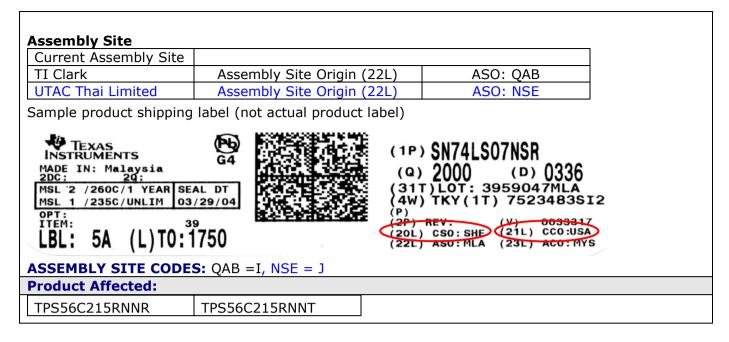
PCN Number: 20161006000							P	CN	Dat	te:	Oct 6, 2016				
Title	e:	Alternate Fa	b (M	1IHO8)	and	Assembly	/ (UTA	C) site Q	uali	ficat	tions	s for sele	ect de	evices	
Customer Contact:			-	PCN Manager)ep	t:		Quali	ty Servic	es
Proposed 1 st Ship Dates			te:	Jan 6, 2017 Estimated Sar Availability:					amp	ole			Date provided at sample request.		
	nge Ty														
		nbly Site			╎凵	Design	<u> </u>					fer Bum			
		nbly Process			Data Sheet								mp Material		
		nbly Material anical Specifi				Part nu Test Sit		change					mp Process		
		ng/Shipping/				Test Pro							b Materials		
	Tucki	ng/ompping/	Lube	ling		TCSCTTC	00000			H		fer Fab			
						PCN	Deta	ails							
Des	criptic	on of Chang	e:												
	Texas Instruments is pleased to announce the qualification of both an additional fab (MIHO8) and Assembly/Test (UTAC) site for the devices listed in the "Product Affected" section of this document.														
		Currei	nt Si	tes					A	ddit	iona	al Sites			
	irrent b Site	Fab Process		imp ite		Vafer ameter		litional b Site	P	Fat roce		Bum Site		Wafer Diamete	r
F	RFAB	LBC7	CLA	RK-BP	30	00 mm	Μ	IHO8		LBC	7	DBUM	IP	200 mm	1
	Assembly Site:				TI CLARK NiPdAu				UTAC						
Lead Finish Mold compound								Matte Sn CZ0339							
				4222790 conditions will remain co								sting an	_ d veri	ified with	
	Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.									1					
_		s are provide	d in	the Qu	al Da	ata Sectio	on.								
Reason for Change:															
Continuity of Supply															
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):															
	No Impact to the Material Declaration			Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained at the site link below <u>http://www.ti.com/quality/docs/materialcontentsearch.tsp</u>											
Changes to product identification resulting from this PCN:															
Cur	Current														
	Chi	p Sites	C	Chip Site Origin Code (20L)			Cł	Chip Site Cour Code (21L)			· · · · · ·			ip Site City	
	R	RFAB			RFB			USA				Richardson]	
Nev	N			hin Cit-		ain Code		in Cita C	0.112	teres					7
		ip Site		Chip Site Origin Code (20L)			Cr	Chip Site Country Code (21L)			Chip Site City				
	M :	CHO8		MH8				JPN				Ibaraki			



Qualification Report

TPS56C215 Pebble Beach 12A Device Qual (RFAB -CLARK BP - UTAC flow) Approve Date 11-Aug-2016

Product Attributes

QBS Product Reference: TPS56C215RNN PG2.0 18PIN	QBS Product Reference: TPS56C215RNN PG2.0 18PIN	QBS Product Reference: TP\$56C215RNN PG2.0 17PIN	QBS Product Reference: TP\$56C215RNN PG2.0 17PIN	QBS Product Reference: TPS56C215RNN PG1.0	Qual Device: TP\$56C215RNN PG2.0 17PIN	Qual Device: TP \$56C 215RNN PG2.0 18PIN	Attributes
UTAC	CLARK AT	UTAC	CLARK AT	CLARK AT	UTAC	UTAC	Assembly Site
HOTROD	HOTROD	HOTROD	HOTROD	HOTROD	HOTROD	HOTROD	Package Family
MIHO	RFAB	MIHO	RFAB	RFAB	RFAB	RFAB	Wafer Fab Supplier
LBC7	LBC7	LBC7	LBC7	LBC7	LBC7	LBC7	Wafer Process
						LBC7	

- Qual gy_similarity
- Qual Devices qualified at LEVEL2-260C: TPS56C215RNN_PG2.0 17PIN, TPS56C215RNN_PG2.0 18PIN

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

Туре	Test Name / Condition	Duration	Qual Device: TP\$56C215RNN PG2.0 18PIN	Qual Device: TPS56C215RNN PG2.0 17PIN	QBS Product Reference: TPS56C215RNN PG1.0	QB S Product Reference: TPS56C215RNN PG2.0 17PIN	QBS Product Reference: TPS56C215RNN PG2.0 17PIN	QBS Product Reference: TPS56C215RNN PG2.0 18PIN	QBS Product Reference: TPS56C215RNN PG2.0 18PIN
AC	Autoclave 121C	96 Hours	-	-	-	2/154/0	1/77/0	1/77/0	2/154/0
ED	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	-	1/30/0	1/30/0	1/5/0	1/5/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	3/231/0	1/77/0	-
HBM	ESD - HBM	4000 V	-	-	-	-	-	1/3/0	1/3/0
CDM	ESD - CDM	2000 V	-	-	-	-	-	1/3/0	1/3/0
HTOL	Life Test, 125C	1000 Hours	-	-	1/77/0	1/77/0	1/77/0	1/77/0	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	-	2/154/0	2/154/0	1/77/0	1/77/0
LU	Latch-up	(per JESD78)	-	-	-	-	-	1/6/0	1/6/0
TC	Temperature Cycle, -55/125C	700 Cycles	1/77/0	-	-	-	-	3/231/0	3/231/0
-	Preconditioning was performed for Autoclave, Unbiased HAST, THB/Blased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable								

The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/14 Hours, 140C/480 Hours, 150C/200 Hours, and 155C/240 Hours The following are equivalent HTSL options based on an activation energy of 0.7eV: 155C/14 Hours, and 170C/400 Hours The following are equivalent Temp Cycle options per JESD47-55C/125C/700 Cycles and -55C/150C/500 Cycles Justif and Environmental data is available at TT seaturnal Web site: http://www.it.com/

Green/Pb-free Status: Qualified Pb-Free (SMT) and Green

Attrib Asser Packa Wafer Wafer

Qualification Report

TPS56C215 Pebble Beach 12A Device Qual (MIHO > DBUMP > UTAC Flow) Approve Date 11-Aug-2016

Product Attributes

tributes	Qual Device: TP\$56C215RNN PG2.0 18PIN	Qual Device: TP\$56C215RNN PG2.0 17PIN	QB \$ Product Reference: TP\$56C215RNN PG1.0	QB \$ Product Reference: TP \$56C215RNN PG2.0 17PIN	QB \$ Product Reference: TP \$56C215RNN PG2.0 17PIN	QB \$ Product Reference: TP \$56C215RNN PG2.0 18PIN	QB \$ Product Reference: TP\$56C215RNN PG2.0 18PIN	QB \$ Process Reference: TP \$51217D \$C	QB \$ Process Reference: TP \$52110R \$A
sembly Site	UTAC	UTAC	CLARK AT	UTAC	CLARK AT	CLARK AT	UTAC	CLARK-AT	CAR
kage Family	HOTROD	HOTROD	HOTROD	HOTROD	HOTROD	HOTROD	HOTROD	WSON	QFN
fer Fab Supplier	MIHO	MIHO	RFAB	RFAB	RFAB	RFAB	RFAB	RFAB	MIH08
fer Process	LBC7.3	LBC7.3	LBC7.3	LBC7.3	LBC7.3	LBC7.3	LBC7.3	LBC7	LBC7

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

285: Qual By, Similarity 2ual Devices qualified at LEVEL2-260C: TPS56C215RNN PG2.0 17PIN, TPS56C215RNN PG2.0 18

Туре	Test Name / Condition	Duration	Qual Device: TP\$SeC215RNN PG2.0 18PIN	Qual Device: TP\$S6C215RNN PG2.0 17PIN	QB \$ Product Reference: TP \$56C215RNN PG1.0	QB \$ Product Reference: TP \$56C215RNN PG2.0 17PIN	QB \$ Product Reference: TP \$56C215RNN PG2.0 17PIN	QB \$ Product Reference: TP \$56C215RNN PG2.0 18PIN	QB \$ Product Reference: TP \$56C215RNN PG2.0 18PIN	QB \$ Process Reference: TP \$51217D \$C	QB \$ Process Reference: TP \$62110R \$A
AC	Autoclave 121C	96 Hours	2/154/0	1/77/0	-		2/154/0	1/77/0	-	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	1/5/0	1/30/0	-	1/30/0	1/30/0	1/5/0	-	3/60/0	-
ELFR	Early Life Failure Rate, 140C	48 Hours	-	-	-		-		-	-	3/1881/0
HAST	Blased HAST, 130C/85%RH	96 Hours	-	3/231/0	-		3/231/0	1/77/0	-	3/231/0	3/231/0
HBM	ESD - HBM	4000 V	1/30	-	-	-	-	1/3/0	-	-	-
CDM	ESD - CDM	2000 V	1/30	-	-	-	-	1/3/0	-	-	-
HTOL	Life Test, 125C	1000 Hours	-	1/77/0	1/77/0	-	1/77/0	1/77/0	-		-
HTOL	Life Test, 135C	635 Hours	-	-	-	-	-	-	-	3/231/0	-
HTOL	Life Test, 140C	480 Hours	-	-	-	-	-	-	-	-	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	1/77/0	2/154/0	-		2/154/0	1/77/0	-	3/231/0	3/231/0
LU	Latch-up	(per JESD78)	1/60	-	-	-	-	1/6/0	-	3/18/0	3/15/0
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	-	-	-	-	3/231/0	1/77/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-	-		-	3/231/0	-	3/231/0	3/231/0
TS	Thermal Shock, -65/150C	500 Cycles	-	-	-	-	-	-	-		3/231/0
	Preconditioning was performed for Au		Blased HAST, Temperature Cycle								

are equivalent 1150, options based on an activation emergy of ULEV 1 taCUTA HOUR, 1402/480 HOUR, 161 ng are equivalent Temp Cyclic options per USDL1 - 550/1520/160 (Victor Hours, and 11702/400 Hours, 162 Reincommetal data is available at 115 external Web left thp/lwww.lcom/

For questions regarding this notice, e-mails can be sent to the regional contacts shown below, or you can contact 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