PCN Number:			F	PCN20131216001						PCN Date: 12/19/2013			
Title: Transfer of select devices in the .35um-UMC-F8J process to UMC-F8E Wafer Fab Facility													
Customer Contact:			Ρ	<u>CN /</u>	<u>Manager</u>	Phon	e:	+1(214)480-6037	7	Dept:	Quality Services		
Proposed 1 st Ship Dat			ate	e: 03/19/2014 Es			Es Av	stimated Sample vailability:	ple Date provided at sample request.			ate provided at ample request.	
Change Type:													
	Ass	embly Site			Assem	nbly Pro	oce	SS		Assen	nbly	Materials	
	Des	ign			Electri	ical Spe	ecifi	ication		Mechanical Specification			
	Test	t Site			Packir	ng/Ship	pin	g/Labeling		Test F	roc	ess	
	Waf	er Bump Site	e		Wafer	Bump	Ма	terial		Wafer	er Bump Process		
\boxtimes	Waf	er Fab Site			Wafer	Fab M	ate	rials		Wafer	- Fal	o Process	
] Part n	umber	cha	ange					
						PC	NC	Details					
Desc	cripti	ion of Chan	ge:										
This notification is to announce the transfer of select devices in the .35um-UMC-F8J process to UMC-F8E Wafer Fab Facility.													
Cui			ites,	, pr	ocess, wa	iei ula	•	Additional Sites,	pioc				
	<u>C-F8J</u>	,.35um-UMC	-F8J	Pro	cess, 200n	nm		UMC-F8E, 0.35 [DPQ	M Proce	ess,	200mm	
The .35um-UMC-F8J Process was qualified at UMC-F8E on 7/12/2013. Details are provided in the Qual Data Section.													
Reason for Change:													
Continuity of supply due to site shutdown													
Anti	cipat	ed impact	on F	or	m, Fit, Fı	inctio	1, Q	Quality or Reliabi	lity	(positiv	ve /	<pre>/ negative):</pre>	
None													
Changes to product identification resulting from this PCN:													
Current													
Chip Site Cl				hip	site code	(20L)	C	Chip country code (21L)					
UMC-F8J			U8J			JPN							
New													
Chip Site Chip			hip	site code	(20L)	C	hip country code (21L)						
UMC-F8E U8E						TWN							
Sample product shipping label (not actual product label)													
TEXAS INSTRUMENTS 202 MSL '2 /260C/1 YEAR SEAL DT OFT: OFT: (1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P)													
LBL	: 5A	(L)T0:175	0		2	(20) (20) (20)) CS	50: SHE (21L) CC0:054 50: MLA (21L) ACO: HYS	~				

Product Affected:								
	PCM1690DCA	PCM1789PW	PCM1789PWRG4	PCM3168APAPRG4				
	PCM1690DCAR	PCM1789PWG4	PCM3168APAP					
	PCM1690DCARG4	PCM1789PWR	PCM3168APAPR					

Qualification Data (Approved: 7/12/2013) This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device 1: PCM1753TDBQRQ1								
Wafer Fab Site:	UMC-	-F8E Wafer Fab Process		3: 0.35 DPTM				
Wafer Diameter:	200m	ım						
Qualification: 🗌 Plan	Qualification: 🗌 Plan 🛛 Test Results							
Poliability Test		Conditions		Sample Size/Fails				
				Lot#1	Lot#2	Lot#3		
High Temp Operating Life		140C(480 Hrs)		79/0	83/0	81/0		
Electrical Characterization		Per Datasheet P	arameters	Pass	Pass	Pass		
**High Temp Storage Bak	е	150C (420 Hrs)		75/0	79/0	80/0		
**Biased HAST		130C/85%RH (96 Hrs)		80/0	80/0	80/0		
**Autoclave		121C, 2 atm (96 Hrs)		77/0	79/0	72/0		
**Temp Cycle		-65C/+150C (500 Cycles)		77/0	79/0	80/0		
ESD CDM		1500V		3/0	3/0	3/0		
ESD HBM		4000V		3/0	3/0	3/0		
Ball Bond Shear		76 balls, 3 units min		76/0	76/0	76/0		
Bond Pull		76 Wire, 3 units min		76/0	76/0	76/0		
Die Shear		-		10/0	10/0	10/0		
Latch-up		(Per JESD78)		8/0	6/0	6/0		
Manufacturability (Assemb	ly)	Per Mfg. Site Specification		Pass	-	-		
Manufacturability (Fab)		Per Mfg. Site Specification		Pass	Pass	Pass		
** Preconditioning sequence: (Level 3/260C)								

Qualification Device 2: PCM3168ATPAPRQ1						
Wafer Fab Site: U	UMC-F	F8E Wafer Fab Process		: 0.35 DPTM		
Wafer Diameter: 2	200mr	m				
Qualification: 🗌 Plan 🛛 Test Results						
Reliability Test		Conditions		Sample Size/Fails Lot#1 Lot#2 Lot#3		
Life Test		125C(1000 Hrs)		79/0	79/0	79/0
Electrical Characterization		Per Datasheet Parameters		Pass	Pass	Pass
**Autoclave		121C, 2 atm (96 Hrs)		80/0	80/0	-
**Temp Cycle		-65C/+150C (500 Cycles)		77/0	77/0	80/0
ESD CDM		250V		3/0	3/0	3/0
ESD HBM		1000V		3/0	3/0	3/0
Ball Bond Shear		76 balls, 3 units min		80/0	80/0	80/0
Bond Pull		76 Wire, 3 units	80/0	80/0	80/0	
Die Shear		-		10/0	10/0	10/0
Latch-up		(Per JESD78)		6/0	6/0	6/0
Manufacturability (Fab)		Per Mfg. Site Sp	Pass	-	-	
** Preconditioning sequence: (Level 3/260C)						

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