PCN Number: 20230606000.1A						.1A				PCN D	ate:	December 18, 2023	
Title:	Title: Qualification of TI Chengdu as an alternate Assembly site for select devices												
Customer Contact: Change Management team Dept: Quality Services													
Proposed 1 st Ship Date: Sept 07, 2023						Sample Requests accepted until: July 07, 2023							
*Sample requests received after July 07, 2023 will not be supported.													
Change	Туре:												
Asse	embly Site	9				Design				☐ Wafe	Wafer Bump Material		
	embly Pro					Data S	heet			Wafer Bump Process			
	embly Mat						Part number change				Wafer Fab Site		
	hanical S					Test Si				Wafer Fab Materials			
□ Pack	king/Shipp	oing/l	_abelin	ıg	Ш	Test Pr					Process		
						PCN	Detai	s					
Descript													
Revision A is to remove devices in the Product Affected Section (in bold character with strikethrough). This device will continue to be manufactured as prior and will not be subjected to the change described in this notification.													
Texas Instruments Incorporated is announcing the qualification of TI Chengdu as an additional Assembly site for the devices listed below. There are no construction differences between the 2 sites.													
Reason for Change:													
Supply continuity													
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):													
None													
Impact on Environmental Ratings													
Checked boxes indicate the status of environmental ratings following implementation of this													

change. If below boxes are checked, there are no changes to the associated environmental ratings.

RoHS	REACH	Green Status	IEC 62474
No Change ■ No Change N	⊠ No Change	No Change ■ No Change N	No Change ■ No Change N

Changes to product identification resulting from this PCN:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
JCAP	JCP	CHN	Jiangyin
TI Chengdu	CDA	CHN	Chengdu

Sample product shipping label (not actual product label)





(1P) SN74LS07NSR (D) 0336 (a) 2000 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483SI2 (2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS

Product Affected:								
AFE4460YBGR	AFE4500YBGR	AFE4960PYBGR	TLV62585DRLR					
AFE4460YBGT	AFE4500YBGT	AFE4960PYBGT	TLV62585DRLT					
AFE4500SYBGR	AFE4950YBGR	AFE4960YBGR	TLV62585PDRLR					
AFE4500SYBGT	AFE4950YBGT	AFE4960YBGT	TLV62585PDRLT					

Qualification Report

Qualification Results

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

Туре	#	Test Name	Condition	Duration	Qual Device: SN2001088YBGR	QBS Reference: TMP117AIYBGR	QBS Reference: TMP117MAIYBGR	QBS Reference: TMP117NAIYBGR	QBS Reference: TMP117AIYBGR	QBS Reference: TMP117AIDRVR
HAST	A2	Biased HAST	110C/85%RH	264 Hours	3/231/0	-	-	-	-	-
UHAST	А3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	-	-	-	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	-	-	-	-	-
HTSL	A 6	High Temperature Storage Life	170C	420 Hours	3/231/0	-	-		-	-
HTOL	B1	Life Test	150C	300 Hours	-	-	-	-	-	3/231/0
ELFR	B2	ELFR	125C	48 Hours	-	-	-	-	1/1000/0	-
ESD	E2	ESD CDM	-	1000 Volts	3/9/0	-	-	-	-	-
ESD	E2	ESD HBM	-	2000 Volts	3/9/0	-	-	-	-	-
LU	E4	Latch-Up	Per JESD78	-	3/18/0	-	-	-	-	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	3/90/0	-	-	-	-	-

QBS: Qual By Similarity

Qual Device SN2001088YBGR is qualified at MSL1 260C

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

Qualification Report

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: TP S562231DRLR	
ED	Electrical Characterization, side by side	(per datasheet)	Pass	
FLAM	Flammability (UL-1694)	-	3/15/0	
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	
HTOL	Life Test, 125C	1000 Hours	3/231/0	
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	
LFA	Lead Finish Adhesion	Leads	3/45/0	
LI	Lead Fatigue	Leads	3/54/0	
LI	Lead Pull	Leads	3/72/0	
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	
SA	Salt Atmosphere	24 Hrs	3/66/0	
SD	Solderability	Pb Free	3/66/0	
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	
VM	Visual / Mechanical	-	3/984/0	

- Qual Device TPS562231DRLR is qualified at LEVEL1-260CG
- 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 Change Management team or your local Field Sales Representative.

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