PC	Numb	per:	2022093	0000). 1		PC N	Date:	October 03, 2022
		w Fab site (RFAB) using qualified Process Technology, Die Revision,							
and BOM option for			or the LMV393IPWR/G4						
Customer Contact:			PCN Manager		Dept:		Quality Services		
Proposed 1 st Ship Date:					Sample Requests accepted until:			Nov. 3, 2022*	
*Sample requests received			received	after Nov. 3, 2022 will not be supported.					
Cha	Change Type:								
Assembly Site		\boxtimes	Assembly Process			Asse	mbly Materials		
\boxtimes	Design			Electrical Specification			Mech	Mechanical Specification	
	Test Site			Packing/Shipping/Labeling			Test	Test Process	
□ Wafer Bump Site			Wafer Bump Material			Wafe	r Bump Process		
\boxtimes	🛛 Wafer Fab Site		\boxtimes	Wafer Fab Materials		\boxtimes	Wafe	r Fab Process	
					Part number change				

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of a new fab & process technology (RFAB, LBC9) die revision, and BOM option for selected devices as listed below for the LMV393IPWR/G4. Construction differences are noted below:

C	urrent Fab Site	e	Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
FR-BIP-1	BCB	200 mm	RFAB	LBC9	300 mm

The die was also changed as a result of the process change.

Additionally, there will be a BOM options as follows:

	Current	Alternate
Bond wire composition, diameter	Au, 0.8 mil	Cu, 0.8 mil

The datasheets will be changing as a result of the above mentioned changes. There will be no relaxation of any datasheet limits for electrical parameters. The thermal resistance has increased from 149 °C/W to 221.7° C/W. This change is not expected to affect any typical application because the LMV393 is a low power device. The PCN for these datasheet changes will be issued early to mid-next year.

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	🛛 No Change	🛛 No Change

Changes to product identification resulting from this PCN:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City	
FR-BIP-1	TID	DEU	Freising	
RFAB	RFB	USA	Richardson	
Die Rev:				
Current	New			
Die Rev [2P]	Die Rev [2P]			
_	Α			
Ja	ng label (not actual produ			
TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 20: MSL 2 /260C/1 YEAR SEAL MSL 1 /235C/UNLIM 03/2 OPT: ITEM: 39 LBL: 5A (L)T0:17	G4 G4 DT 29/04	uct label) 1P) SN74LS07NSR (Q) 2000 (D) 0336 31T)LOT: 3959047MLA 4W) TKY (1T) 7523483S12 (P) REV: (V) 0033317 (21) CCO:USA (21) CCO:USA (21) ASO: MLA (23L) ACO: MYS		
TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2Q: MSL '2 /260C/1 YEAR SEAL MSL 1 /235C/UNLIM 03/2 OPT: ITEM: 39	G4 G4 DT 29/04	1P) SN74LS07NSR (Q) 2000 (D) 0336 31T) LOT: 3959047MLA 4W) TKY(1T) 7523483512 (P) PP) REV: (V) 0033317 (OL) COD: CHE (21L) CCO: USA		

TI Information Selective Disclosure

Qualification Report Approve Date 29-JUNE -2022

Qualification Results

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

Туре	#	Test Name	Condition	Duration	Qual Device: LMV393IPWR	QBS Product Reference:	QBS Process/Package Reference:
						TLV9032QPWRQ1	SN74HCS74QPWRQ1
HAST	A2	Biased HAST	130C/85%RH	96 Hours	1/77/0	1/77/0	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	1/77/0	1/77/0	3/231/0
TC	A4	Temperature Cycle	-65C/150C	1000 Cycles	1/77/0	1/77/0	3/231/0
HTSL	A6	High Temperature Storage Life	175C	500 Hours	1/77/0	1/77/0	3/135/0
HTOL	B1	Life Test	150C	300 Hours	1/77/0	1/77/0	3/231/0
ESD	E2	ESD CDM	-	1500 Volts	1/3/0	1/3/0	-
ESD	E2	ESD HBM	-	2000 Volts	1/3/0	1/3/0	-
LU	E4	Latch-Up	Per JESD78	-	1/6/0	1/6/0	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	1/30/0	-

• QBS: Qual By Similarity

Qual Device LMV393IPWR is qualified at MSL1 260C

PCN#20220930000.1

- 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

TI Qualification ID: R-CHG-2203-044

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

Location	E-Mail			
WW Change Management Team	PCN ww admin team@list.ti.com			

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