

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN20230327001.1B Qualify additional Assembly site for select SOT-23 Package devices Change Notification / Sample Request

Date: November 15, 2023 **To:** Newark/Farnell PCN

Dear Customer:

The purpose of Revision B is to retract devices which was included in error. We apologize for the inconvenience this may have caused.

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

Change Management Team SC Business Services

20230327001.1B Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE OPA365AIDBVR **CUSTOMER PART NUMBER**

null

Technical details of this Product Change follow on the next page(s).

								Novembe	vr 15
PCN Number: 2		202303270)01.1B			PC	N Date:	2023	:1 13,
Title:	Qualify addit	ional Assem	bly site for select S	ОТ	-23 Pac	kage	devices		
	mer Contact:	Change Ma	nagement team	D	ept:		ality Servic	es	
Propo Date:	sed 1 st Ship	June 28,	2023				requests ted until:	N/A	
*Samp	*Sample requests received after (Apr. 28, 2023) will not be supported.								
Chang	је Туре:								
⊠ As	ssembly Site		Design				Wafer Bu	ımp Mater	ial
⊠ As	ssembly Process		☐ Data Sheet			☐ Wafer Bump Process			SS
⊠ As	ssembly Materia	s	Part number cl	าลเ	nge		Wafer Fa	b Site	
	echanical Specif		☐ Test Site					b Material	S
☑ Pa	acking/Shipping/	Labeling	☐ Test Process			Ш	Wafer Fa	b Process	
			PCN Deta	ils	5				
Descr	iption of Chang	je:							
<mark>high lig</mark>	hted in the Prod	uct Affected	ract devices which we Section in bold font	. W	<mark>rith a str</mark>	<mark>iket</mark> l	<mark>hrough.</mark>		
device		the product	announcing the qua affected section. C						
			SOT-23						
	Assembly Sites		TFME, PHI, HNA, H	l FΓ	ΓFAT, AS	SEWH	H, CDAT, T	IEMA	
Lead Finish NiPdAu, NiPdAuAg, Matte					•				
Mount Compound			A-09 A-03 4207123 400180 1120999A2 1120999A1 A-20						
A-20 450207 R-04 R-17 Mold Compound 450413 4222198 450042 8097131									
	Bond wire type		Au, Cu						
	15.24 UM (0.6 MIL) 20.3 UM (0.8 MIL) Bond wire diameter 25.4 UM (1.0 MIL) 33 UM (1.3 MIL) 50.8 UM (2.0 MIL)								
Reaso	n for Change:								
	uity of Supply								
	· · · · · ·	n Fit, Form	, Function, Qualit	V	or Relia	bilit	y (positiv	e / nega	tive):
None		,	, , , , , , , , , , , , , , , , , , , ,	_				3	

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:

Assembly Site		
TFME	Assembly Site Origin (22L)	ASO: NFM
TI Philippines	Assembly Site Origin (22L)	ASO: PHI
Hana	Assembly Site Origin (22L)	ASO: HNT
ASEWH	Assembly Site Origin (22L)	ASO: AWH
HFTFAT	Assembly Site Origin (22L)	ASO: HFT
TI Chengdu	Assembly Site Origin (22L)	ASO: CDA
TI Melaka	Assembly Site Origin (22L)	ASO: CU6

Sample product shipping label (not actual product label)



LBL: 5A (L)TO:1750



(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483812 (P) (2P) REV: (V) 0033317 (20L) C\$0: SHE (21L) CCO: USA (22L) A\$0: MLA (23L) ACO: MYS

Product Affected:

INA138NA/250	SN74LVC2G14DBVR	LM3880MFX-1AA/NOPB	DRV5021A2QDBZT
INA138NA/3K	SN74LVC2G17DBVR	LM3880MFX-1AB/NOPB	DRV5021A3QDBZR
INA168NA/250	SN74LVC2G34DBVR	LM3880MFX-1AC/NOPB	DRV5021A3QDBZT
INA168NA/3K	SN74LVC2GU04DBVR	LM3880MFX-1AD/NOPB	DRV5023AJQDBZR
INA193AIDBVR	SN74LVC2GU04DBVT	LM3880MFX-1AE/NOPB	DRV5023AJQDBZT
INA193AIDBVT	TLV61220DBVR	LM3880MFX-1AF/NOPB	DRV5023BIQDBZR
INA194AIDBVR	TLV61220DBVT	INA181A1IDBVR	DRV5023BIQDBZT
INA194AIDBVT	TMP100NA/250	INA181A1IDBVT	DRV5032AJDBZR
INA195AIDBVT	TMP100NA/3K	INA181A2IDBVR	DRV5032AJDBZT
INA196AIDBVR	TPD4E1U06DBVR	INA181A2IDBVT	DRV5032DUDBZR
INA196AIDBVT	TPS22917LDBVR	INA181A3IDBVR	DRV5032DUDBZT
INA197AIDBVR	TPS2513ADBVR	INA181A3IDBVT	DRV5032FADBZR
INA197AIDBVT	TPS2513ADBVT	INA181A4IDBVR	DRV5032FADBZT
INA198AIDBVT	TPS2513DBVR	INA181A4IDBVT	DRV5032FBDBZR
OPA340NA/250	TPS2513DBVT	LM2776DBVR	DRV5032FBDBZT
OPA340NA/3K	TPS2514ADBVR	LM2776DBVT	DRV5032FCDBZR
OPA365AIDBVR	TPS2514ADBVT	OPA322SAIDBVR	DRV5032FCDBZT
OPA365AIDBVT	TPS2552DBVR-1	OPA322SAIDBVT	DRV5032ZEDBZR
OPA376AIDBVR	TPS2552DBVT-1	REG710NA-3.3/250	DRV5032ZEDBZT
OPA376AIDBVT	TXS0101DBVR	REG710NA-3.3/3K	DRV5033AJQDBZR
SN74AUP1G04DBVR	TXS0101DBVT	REG710NA-5/250	DRV5033AJQDBZT

SN74AUP1G06DBVR UCC27511DBVR REG710NA-5/3K DRV5033	
SIV TAGI 1000DBVK 0CC27511DBVK IKEG/10NA 5/5K DKV3033	FAQDBZR
SN74AUP1G07DBVR UCC27511DBVT SN1511002DBVR DRV5053	CAQDBZR
SN74AUP1G17DBVR UCC27531DBVR SN74AUP1G57DBVR DRV5053	CAQDBZT
SN74LVC1G02DBVR UCC27531DBVT SN74AUP1G57DBVT DRV5053	EAQDBZR
SN74LVC1G02DBVT UCC27532DBVR SN74AUP1G58DBVR DRV5053	EAQDBZT
SN74LVC1G14DBVR UCC27532DBVT SN74AUP1G58DBVT DRV5053	OAQDBZR
SN74LVC1G17DBVR UCC27538DBVR SN74AUP1G97DBVR DRV5053	OAQDBZT
SN74LVC1G34DBVR UCC27538DBVT SN74AUP1G97DBVT DRV5053	PAQDBZR
TPS60400DBVR UCC28704DBVR-1 SN74AUP1G98DBVR DRV5053	PAQDBZT
TPS60400DBVT UCC28704DBVT-1 SN74AVC1T45DBVR DRV5053	RAQDBZR
TPS60401DBVR UCC28742DBVR SN74AVCH1T45DBVR DRV5053	RAQDBZT
TPS60401DBVT UCC28742DBVT SN74LVC1G11DBVR DRV5053	VAQDBZR
TPS60402DBVR DRV5011ADDBZR SN74LVC1G175DBVR DRV5053	VAQDBZT
TPS60402DBVT DRV5011ADDBZT SN74LVC1G19DBVR DRV5056	A6QDBZR
TPS60403DBVR DRV5013ADEDBZR SN74LVC1G19DBVT DRV5056.	A6QDBZT
TPS60403DBVT DRV5013ADQDBZR SN74LVC1G27DBVR REF3020A	AIDBZR
TPS7A0218DBVR DRV5013ADQDBZT SN74LVC1G332DBVR REF3020A	AIDBZT
TPS7A0228DBVR DRV5013AGQDBZR SN74LVC1G373DBVR REF3025A	AIDBZR
TPS7A0233DBVR DRV5013AGQDBZT SN74LVC1G374DBVR REF3025A	AIDBZT
LM3880MF-1AA/NOPB DRV5013BCQDBZR SN74LVC1G57DBVR REF3030A	\IDBZR
LM3880MF-1AB/NOPB DRV5013BCQDBZT SN74LVC1G58DBVR REF3030A	\IDBZT
LM3880MF-1AC/NOPB DRV5013FAQDBZR SN74LVC1G97DBVR REF3033A	AIDBZR
LM3880MF-1AD/NOPB DRV5015A1QDBZR SN74LVC1G98DBVR REF3033A	AIDBZT
LM3880MF-1AE/NOPB DRV5015A1QDBZT SN74LVC1G98DBVT REF3040A	AIDBZR
LM3880MF-1AF/NOPB DRV5015A2QDBZR SN74LVC1GX04DBVR REF3040A	AIDBZT
LM3880MFE-1AA/NOPB DRV5015A2QDBZT SN74LVC1GX04DBVT TLV803EA	A30DBZR
LM3880MFE-1AB/NOPB DRV5015A3QDBZR SN74LVC1T45DBVR TLV809EA	A17DBZR
LM3880MFE-1AC/NOPB DRV5015A3QDBZT SN74LVC1T45DBVT TMAG523	1B1DQDBZR
LM3880MFE-1AD/NOPB DRV5021A1QDBZR SN74LVC2G04DBVR	
LM3880MFE-1AE/NOPB DRV5021A1QDBZT SN74LVC2G06DBVR	
SN74LVC2G07DBVR LM3880MFE-1AF/NOPB DRV5021A2QDBZR	

Qualification Report (SOT-23)

Qualification Results

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

	Stress Test	Duration	PHI TPS76933DBV	CDAT TLV9061IDBV
	Temperature Cycling -65/150C	500 Cycles		
	Or	Or		
TC	Temperature Cycling -55/150C	1000 Cycles	3/231/0	3/231/0
	Or	Or		
	Temperature Cycling -55/125C	700 Cycles		
HAST/T	Biased HAST 130 C/85% RH	96 hours	3/231/0	3/231/0

	Stress Test	Duration	PHI TPS76933DBV	CDAT TLV9061IDBV
HB	Or	Or		
	Biased HAST 110C/85%RH	264 hours		
	Or	Or		
	Temperature Humidity Bias, 85C/85%RH	1000 hours		
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0
AC/ UHA ST	Autoclave 121C Or Unbiased HAST, 130C/85%RH	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	TFM E SN74AHC1G14DBV	HNA INA293A1IDBV
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/150C Or Temperature Cycling -55/125C	500 Cycles Or 1000 Cycles Or 700 Cycles	3/231/0	3/231/0
HAST/T HB	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0
AC/ UHA ST	Autoclave 121C Or Unbiased HAST, 130C/85%RH	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steamage or 155C Dry Bake	3/66/0	3/66/0 (SN74LV C1GU04DBV)
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	TIEMA DAC121S101CIMK	HFTAT TLV70333DBV	ASEWH TL431CDBV
тс	Temperature Cycling -65/150C Or Temperature Cycling -55/150C Or Temperature Cycling -55/125C	500 Cycles Or 1000 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST/T HB	Biased HAST 130C/85% RH Or Biased HAST 110C/85% RH Or Temperature Humidity Bias, 85C/85% RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0

	Stress Test	Duration	TIEMA DA C121 S1 01 CIM K	HFTAT TLV70333 DBV	ASEWH TL431CDBV
HTSL	High Temp. Storage Bake 150 C Or High Temp. Storage Bake 170 C	1000 hours Or 420 hours	3/231/0	3/231/0	3/231/0
AC/ UHA ST	Autoclave 121C Or Unbiased HAST, 130C/85%RH	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0 (LM2660MM/NOPB)	3/66/0 (TLV74333PDBV)	3/66/0
MQ	Manufacturability	=	Pass	Pass	Pass

All qualification devices in the tables are qualified at L1-260C MSL rating.

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, and HTSL, as applicable
- The following are equivalent HTSL options based on activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours

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

For questions regarding this notice, e-mails can be sent to Change Management team or your local Field Sales Representative.

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disdaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.