

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20200908000.1A Oualification of an additional Mold compound for select devices

Change Notification / Sample Request

Date: June 04, 2021

To: TOKYO ELECTRON DEVICE (DSTR) PCN

Revision A is to announce the <u>addition</u> of new devices that were not included on the original PCN notification.

Dear Customer:

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.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The proposed first ship date is indicated 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, contact your local Field Sales Representative or the PCN Team (<u>PCN ww admin team@list.ti.com</u>). For sample requests or sample related questions, contact your field sales representative.

Sincerely,

PCN Team SC Business Services

20200908000.1A Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TLV431AILPRE3	null
TL431CLPE3	null
TL431CLPME3	null
TL1431CLPRE3	null
TL431AILPRE3	null
TL431AILPME3	null

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

PCN Nu	N Number: 20200908000.1A PCN Date: June 4, 2021						2021				
Title: Qualification of an additional Mold compound for select devices											
Customer Contact: PCN Manager Dept: Quality Services											
Propose	d 1 st Ship Date: Apr. 15,		5, 2	021	Estimated S		ample Date provided at bility: sample request				
Change	Type:										
Asse	embly Site				Design			Wafer Bump Site			
	embly Process				Data S	a Sheet		Wafer Bump Material			
	embly Materia				Part number change			Wafer Bump Process			
	Mechanical Specification Test Site Wafer Fab Site										
Packing/Shipping/Labeling Test Process Wafer Fab Materials											
PCN Details Wafer Fab Process											
Descrint	tion of Chan	מפי			PCN	Details					
			ne addit	ion	of new	devices that were r	not ir	ncluded on	the original	PCN PCN	
Revision A is to announce the <u>addition</u> of new devices that were not included on the original PCN notification. These new devices are highlighted and bolded in the device list below. The expected first shipment date for these new devices will be 90 days from this notice for these newly added devices only. This PCN is to inform of an additional mold compound qualification for the devices in the product affected section as follows:							<mark>ed</mark>				
What				Current			Additional				
Mold Compound				SID#R-01 or SID#402042101			SID#R-35				
Reason for Change:											
Continuit	ty of supply	Continuity of supply									
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):											
Anticipa	ited impact	on Fori	n, Fit,	Fun	ction,	Quality or Reliabi	lity	(positive	/ negative)	:	
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LM217LCLD	LM4041D12HDD	TI 424 DOLDM	TIVILIA 21 A OLD	
LM317LCLP	LM4041D12ILPR	TL431BQLPM	TLVH431AQLP	
LM317LCLPR	LM4041DILP	TL431BQLPME3	TLVH431AQLPR	
LM317LCLPRE3	LM4041DILPR	TL431BQLPR	TLVH431BCLP	
LM317LILP	LP2950-30LP	TL431BQLPRE3	TLVH431BCLPR	
LM317LILPR	LP2950-30LPR	TL431CLP	TLVH431BILP	
LM336BLP-2-5	LP2950-30LPRE3	TL431CLPE3	TLVH431BILPR	
LM336BLPE3-2-5	LP2950-33LPE3	TL431CLPE3-J	TLVH431BQLP	
LM336BLPR-2-5	LP2950-33LPRE3	TL431CLPM	TLVH431BQLPE3	
LM336LP-2-5	LP2950-50LPRE3	TL431CLPME3	TLVH431BQLPR	
LM336LPE3-2-5	LT1009CLP	TL431CLPME3-J	TLVH431CLP	
LM336LPR-2-5	LT1009CLPE3	TL431CLPR	TLVH431CLPE3	
LM385BLP-1-2	LT1009CLPM	TL431CLPRE3	TLVH431CLPR	
LM385BLP-2-5	LT1009CLPR	TL431CLP-Z	TLVH431ILP	
LM385BLPE3-1-2	LT1009ILP	TL431ILP	TLVH431ILPR	
LM385BLPE3-2-5	LT1009ILPR	TL431ILPE3	TLVH431QLP	
LM385BLPR-1-2	LT1009ILPRE3	TL431ILPR	TLVH431QLPR	
LM385BLPR-2-5	MC79L05ACLP	TL431ILPRE3	UA78L02ACLP	
LM385BLPRE3-1-2	MC79L05ACLPE3	TL750L05CLP	UA78L02ACLPE3	
LM385LP-1-2	MC79L05ACLPR	TL750L05CLPE3	UA78L05ACLP	
LM385LP-2-5	MC79L12ACLP	TL750L05CLPR	UA78L05ACLPE3	
LM385LPE3-2-5	MC79L12ACLPE3	TL750L05CLPRE3	UA78L05ACLPM	
LM385LPR-1-2	MC79L12ACLPR	TL750L08CLP	UA78L05ACLPME3	
LM385LPR-2-5	MC79L12ACLPRE3	TL750L08CLPE3	UA78L05ACLPR	
LM385LPRE3-1-2	MC79L12CLP	TL750L10CLP	UA78L05ACLPRE3	
LM4040C10ILP	MC79L15ACLP	TL750L10CLPR	UA78L05AILP	
LM4040C10ILPR	MC79L15ACLPE3	TL750L12CLP	UA78L05AILPE3	
LM4040C20ILP	MC79L15ACLPR	TL7757CLP	UA78L05AILPR	
LM4040C20ILPE3	MC79L15ACLPRE3	TL7757CLPE3	UA78L05AILPRE3	
LM4040C20ILPR	SN1102023LP	TL7757CLPR	UA78L05CLP	
LM4040C25ILP	SN1102023LPB	TL7757ILP	UA78L05CLPE3	
LM4040C25ILPR	TL1431CLP	TL7757ILPE3	UA78L05CLPR	
LM4040C30ILP	TL1431CLPE3	TL7757ILPR	UA78L06ACLP	
LM4040C30ILPE3	TL1431CLPME3	TLE2425CLP	UA78L06ACLPE3	
LM4040C30ILPR	TL1431CLPR	TLE2425ILP	UA78L06ACLPR	
LM4040C41ILP	TL1431CLPRE3	TLE2426CLP	UA78L06ACLPRE3	
LM4040C41ILPR	TL317CLP	TLE2426CLPE3	UA78L08ACLP	
LM4040C50ILP	TL317CLPE3	TLE2426CLPR	UA78L08ACLPE3	
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LM4040C50ILPR	TL317CLPRE3	TLE2426ILPR	UA78L08ACLPRE3	
LM4040C50ILPR LM4040C82ILP	TL317CLPRE3 TL317LP	TLE2426ILPR TLV431ACLP	UA78L08ACLPRE3 UA78L09ACLP	
LM4040C50ILPR LM4040C82ILP LM4040C82ILPR	TL317CLPRE3 TL317LP TL430CLP	TLE2426ILPR TLV431ACLP TLV431ACLPE3	UA78L08ACLPRE3 UA78L09ACLP UA78L09ACLPE3	
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LM4040D25ILP	TL431ACLPM	TLV431AILPM	UA78L10ACLPE3
LM4040D25ILPR	TL431ACLPME3	TLV431AILPR	UA78L10ACLPR
LM4040D30ILP	TL431ACLPR	TLV431AILPRE3	UA78L10ACLPRE3
LM4040D30ILPR	TL431ACLPRE3	TLV431BCLP	UA78L12ACLP
LM4040D30ILPRE3	TL431ACLP-Z	TLV431BCLPR	UA78L12ACLPE3
LM4040D41ILP	TL431AILP	TLV431BILP	UA78L12ACLPM
LM4040D41ILPE3	TL431AILPE3	TLV431BILPR	UA78L12ACLPR
LM4040D41ILPR	TL431AILPM	TLV431BILPRE3	UA78L15ACLP
LM4040D50ILP	TL431AILPME3	TLV431BQLP	UA78L15ACLPE3
LM4040D50ILPR	TL431AILPR	TLV431BQLPR	UA78L15ACLPR
LM4040D50ILPRE3	TL431AILPRE3	TLV431CLP	UA78L15ACLPRE3



TI Information Selective Disclosure

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

Туре	Test Name / Condition	Duration	Qual Device: SN1102023LP	Qual Device: TL1431CLP	Qual Device: TLE2426ILP
BHAST	Biased HAST, 130C	96 Hours	-	3/231/0	-
UHAST	Unbiased HAST, 130C	96 Hours	3/231/0	3/231/0	3/231/0
TC	Temperature Cycle, -65C/150C	500 Cycles	3/231/0	3/231/0	3/231/0
HTSL	High Temperature Storage Bake, 170C	420 Hours	3/231/0	3/231/0	3/231/0
ED	Electrical Characterization	Per datasheet specification	-	1/30/0	-
MQ	Manufacturability (Assembly)	Per mfg. site specification	3/PASS	3/PASS	3/PASS
PD	Physical Dimensions	Per mechanical drawing	-	-	3/15/0
PKG	Solder Heat, 260C	10 Seconds	3/66/0	3/66/0	3/66/0
LI	Lead Pull	Leads	-	-	3/84/0
VM	Visual / Mechanical	Per mfg. site specification	-	-	3/984/0
XRAY	X-ray	(top side only)	3/15/0	3/15/0	3/15/0
FLAM	Flammability	Method A - UL94 V-0	-	-	3/PASS
YLD	FTY and Bin Summary	-	3/PASS	3/PASS	3/PASS

⁻ The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1000 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

For questions regarding this notice, e-mails can be sent to the 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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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