

PCN Number:	20200908000.1		PCN Date:	Jan. 15, 2021						
Title:	Qualification of an additional Mold compound for select devices									
Customer Contact:	PCN Manager	Dept:	Quality Services							
Proposed 1st Ship Date:	Apr. 15, 2021	Estimated Sample Availability:	Date provided at sample request							
Change Type:										
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site					
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material					
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process					
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site					
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials					
				<input type="checkbox"/>	Wafer Fab Process					
PCN Details										
Description of Change:										
This PCN is to inform of an additional mold compound qualification for the devices in the product affected section as follows:										
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 33%;">What</th> <th style="width: 33%;">Current</th> <th style="width: 33%;">Additional</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>SID#R-01 or SID#402042101</td> <td>SID#R-35</td> </tr> </tbody> </table>					What	Current	Additional	Mold Compound	SID#R-01 or SID#402042101	SID#R-35
What	Current	Additional								
Mold Compound	SID#R-01 or SID#402042101	SID#R-35								
Reason for Change:										
Continuity of supply										
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):										
None										
Anticipated impact on Material Declaration										
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website .							
Changes to product identification resulting from this PCN:										
None										
Product Affected:										
BQ2022ALPR	LM4040D82ILP	TL431BCLP	TLV431ILPR							
BQ2026LPR	LM4040D82ILPR	TL431BCLPR	TLVH431ACLPR							
LM285LP-1-2	LM4041C12ILP	TL431BILP	TLVH431ACLPR							
LM285LP-2-5	LM4041C12ILPR	TL431BILPR	TLVH431AILP							
LM285LPR-2-5	LM4041CILP	TL431BQLP	TLVH431AILPR							
LM285LPRE3-1-2	LM4041CILPR	TL431BQLPM	TLVH431AQLP							
LM317LCLP	LM4041D12ILP	TL431BQLPR	TLVH431AQLPR							
LM317LCLPR	LM4041D12ILPR	TL431CLP	TLVH431BCLP							
LM317LILP	LM4041DILP	TL431CLP-Z	TLVH431BCLPR							
LM317LILPR	LM4041DILPR	TL431CLPE3-J	TLVH431BILP							
LM336BLP-2-5	LP2950-30LP	TL431CLPM	TLVH431BILPR							
LM336BLPR-2-5	LP2950-30LPR	TL431CLPME3-J	TLVH431BQLP							

LM336LP-2-5	LP2950-33LPE3	TL431CLPR	TLVH431BQLPR
LM336LPR-2-5	LP2950-33LPRE3	TL431ILP	TLVH431CLP
LM385BLP-1-2	LP2950-50LPRE3	TL431ILPR	TLVH431CLPR
LM385BLP-2-5	LT1009CLP	TL750L05CLP	TLVH431ILP
LM385BLPR-1-2	LT1009CLPM	TL750L05CLPR	TLVH431ILPR
LM385BLPR-2-5	LT1009CLPR	TL750L08CLP	TLVH431QLP
LM385LP-1-2	LT1009ILP	TL750L10CLP	TLVH431QLPR
LM385LP-2-5	LT1009ILPR	TL750L10CLPR	UA78L02ACL
LM385LPR-1-2	MC79L05ACL	TL750L12CLP	UA78L05ACL
LM385LPR-2-5	MC79L05ACLPR	TL7757CLP	UA78L05ACLPM
LM4040C10ILP	MC79L12ACL	TL7757CLPR	UA78L05ACLPR
LM4040C10ILPR	MC79L12ACLPR	TL7757ILP	UA78L05AILP
LM4040C20ILP	MC79L12CLP	TL7757ILPR	UA78L05AILPR
LM4040C20ILPR	MC79L15ACL	TLE2425CLP	UA78L05CLP
LM4040C25ILP	MC79L15ACLPR	TLE2425ILP	UA78L05CLPR
LM4040C25ILPR	SN1102023LP	TLE2426CLP	UA78L06ACL
LM4040C30ILP	SN1102023LPB	TLE2426CLPR	UA78L06ACLPR
LM4040C30ILPR	TL1431CLP	TLE2426ILP	UA78L08ACL
LM4040C41ILP	TL1431CLPME3	TLE2426ILPR	UA78L08ACLPE3
LM4040C41ILPR	TL1431CLPR	TLV431ACL	UA78L08ACLPR
LM4040C50ILP	TL317CLP	TLV431ACLPR	UA78L08ACLPRE3
LM4040C50ILPR	TL317CLPR	TLV431AILP	UA78L09ACL
LM4040C82ILP	TL317LP	TLV431AILPM	UA78L09ACLPE3
LM4040C82ILPR	TL430CLP	TLV431AILPR	UA78L09ACLPR
LM4040D10ILP	TL431ACL	TLV431BCLP	UA78L09ACLPRE3
LM4040D20ILPR	TL431ACL-Z	TLV431BCLPR	UA78L10ACL
LM4040D25ILP	TL431ACLPM	TLV431BILP	UA78L10ACLPE3
LM4040D25ILPR	TL431ACLPE3	TLV431BILPR	UA78L10ACLPR
LM4040D30ILP	TL431ACLPR	TLV431BQLP	UA78L12ACL
LM4040D30ILPR	TL431ACLPRE3	TLV431BQLPR	UA78L12ACLPM
LM4040D41ILP	TL431AILP	TLV431CLP	UA78L12ACLPR
LM4040D41ILPR	TL431AILPM	TLV431CLPR	UA78L15ACL
LM4040D50ILP	TL431AILPR	TLV431ILP	UA78L15ACLPR
LM4040D50ILPR	TL431AILPRE3-J		

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

Type	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 TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free (SMT) and Green

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