

PCN Number:	20211216001.2			PCN Date:	March 16, 2022								
Title:	Qualification of additional Mold compound for select devices												
Customer Contact:	PCN Manager	Dept:	Quality Services										
Proposed 1st Ship Date:	Sept. 14 2022	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"/>		<input type="checkbox"/>	Wafer Fab Process								
PCN Details													
Description of Change:													
This PCN is to inform of the qualification of a new mold compound option for the devices in the product affected section as follows:													
<table border="1"> <thead> <tr> <th>What</th> <th>Current</th> <th>New</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>4205694</td> <td>4211880</td> </tr> </tbody> </table>						What	Current	New	Mold Compound	4205694	4211880		
What	Current	New											
Mold Compound	4205694	4211880											
Reason for Change:													
Continuity of supply													
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.													
<table border="1"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> </tr> </tbody> </table>						RoHS	REACH	Green Status	IEC 62474	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change
RoHS	REACH	Green Status	IEC 62474										
<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change										
Changes to product identification resulting from this PCN:													
None													
Product Affected:													
LM211MDREP	TLE2021MDREP	UCC28C45MDREP	V62/06629-01XE										
LM258AMDREP	TLE2021QDREP	V62/03619-03XE	V62/06634-01XE										
LM258AMDREPG4	TLE2022AQDREP	V62/03619-06XE	V62/06674-01XE										
LM293MDREP	TLE2022QDREP	V62/03638-02XE	V62/06675-01XE										
MC33078MDREP	TLE2027MDREP	V62/04604-04YE	V62/07605-01XE										
SN65HVD10MDREP	TLE2141MDREP	V62/04642-02XE	V62/07606-01XE										
SN65HVD10QDREP	TLV2252AQDREP	V62/04651-02UE	V62/07615-01XE										
SN65HVD12IDREP	TLV2462AMDREP	V62/04682-02XE	V62/07615-02XE										

SN65HVD21MDREP	TLV2462AQDREP	V62/04755-01XE	V62/07618-01XE
SN65HVD21MDREPG4	TLV2772AMDREP	V62/04755-02XE	V62/07624-02YE
SN65HVD230MDREP	TLV3492AMDREP	V62/04755-03XE	V62/07635-02XE
SN65HVD233MDREP	TPS40200MDREP	V62/04755-04XE	V62/07646-01XE
SN65HVD30MDREP	TPS40200MDREPG4	V62/04755-07XE	V62/08620-01XE
SN65HVD30MDREPG4	UA9638CIDREP	V62/05604-01XE	V62/09611-01XE
TL072QDREP	UCC27322MDEP	V62/05604-03XE	V62/11601-02YE
TLC2252AQDREP	UCC27322MDREP	V62/05604-04XE	V62/11601-02YE-T
TLC372MDREP	UCC27423MDREP	V62/06607-02XE	V62/12604-01XE
TLC7701MDREP	UCC2808AQDR-2EP	V62/06615-01XE	V62/12606-01XE
TLE2021AQDREP	UCC28C43MDREP		



TI Information
Selective Disclosure

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM2903BIDR	Qual Device: TLV431AIDR	Qual Device: TPS54231DR	QBS Package Reference: TL5001AQDRQ1
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0
LI	Lead Fatigue	Leads	-	3/27/0	3/27/0	3/27/0
LI	Lead Pull	Leads	-	3/72/0	3/72/0	3/72/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	-
MQ	Manufacturability (Auto Assembly)	(per automotive requirements)	-	-	-	Pass
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	3/15/0	3/15/0	3/15/0
SD	Solderability	Pb Free	-	3/66/0	3/66/0	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0
VM	Visual / Mechanical	-	3/984/0	3/984/0	3/984/0	3/984/0

- QBS: Qual By Similarity
 - Qual Devices TPS54231DR and TLV431AIDR are qualified at LEVEL1-260C
 - Qual Device LM2903BIDR is qualified at LEVEL2-260C
 - 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 TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:
Qualified Pb-Free(SMT) and Green

TI Qualification ID: 20200608-134586

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