

PCN Number:	20200814000.1	PCN Date:	Aug 19 2020									
Title:	Qualification of a new Lead finish and new Mold compound for select devices											
Customer Contact:	PCN Manager	Dept:	Quality Services									
Proposed 1st Ship Date:	Nov 17 2020	Estimated Sample Availability:	Date provided at sample request									
Change Type:												
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design									
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet									
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change									
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site									
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process									
		<input type="checkbox"/>	Wafer Bump Site									
		<input type="checkbox"/>	Wafer Bump Material									
		<input type="checkbox"/>	Wafer Bump Process									
		<input type="checkbox"/>	Wafer Fab Site									
		<input type="checkbox"/>	Wafer Fab Materials									
		<input type="checkbox"/>	Wafer Fab Process									
PCN Details												
Description of Change:												
<p>This PCN is to inform of an new mold compound & lead finish qualification for the devices in the product affected section as follows:</p>												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>What</th> <th>Current</th> <th>New</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>4222790</td> <td>4223495</td> </tr> <tr> <td>Lead finish</td> <td>NiPdAu</td> <td>Matte Sn</td> </tr> </tbody> </table>				What	Current	New	Mold Compound	4222790	4223495	Lead finish	NiPdAu	Matte Sn
What	Current	New										
Mold Compound	4222790	4223495										
Lead finish	NiPdAu	Matte Sn										
<p>Upon expiry of this PCN, there will be a transition period where TI will combine lead free solutions in a single standard part number. For example; TLV62085RLTT – can ship with both Matte Sn and NiPdAu/Ag.</p>												
<p>Example:</p> <ul style="list-style-type: none"> – Customer order for 7500 units of TLV62085RLTT with 2500 units SPQ (Standard Pack Quantity per Reel). – TI can satisfy the above order in one of the following ways. <ul style="list-style-type: none"> I. 3 Reels of NiPdAu finish. II. 3 Reels of Matte Sn finish III. 2 Reels of Matte Sn and 1 reel of NiPdAu finish. IV. 2 Reels of NiPdAu and 1 reel of Matte Sn finish. 												
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:												

SN62085RLTR	TLV62085RLTT	TPS62085RLTR	TPS62085RLTT
TLV62085RLTR			



TI Information
Selective Disclosure

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

Type	Test Name / Condition	Duration	Qual Device: TPS62085RLTR
AC	Autoclave	121C, 96 Hours	3/231/0
HAST	Biased HAST	130C/85% RH, 96 Hours	3/231/0
HTSL	High Temp Storage Bake 150C	1000 Hours	3/231/0
MQ	Manufacturability	Per Mfg Site	3/Pass
MSL	Moisture Sensitivity	Level 1-260C	3/36/0
PD	Physical Dimensions	(per mechanical drawing)	3/15/0
SD	Solderability	Pb	3/66/0
TC	Temperature Cycle	55C/+125C, 700 Cycles	3/231/0
VM	Visual Quality Reliability Inspection	Post Temp Cycle	3/6/0

- QBS: Qual By Similarity
- Qual Device TPS62085RLTR is qualified at LEVEL1-260C
- 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

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

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