

PCN Number:	20170829000		PCN Date:	Aug 30, 2017										
Title:	Qualify New Assembly Material set for Selected Device(s)													
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037	Dept:	Quality Services									
Proposed 1st Ship Date:	Nov 30, 2017		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 checked="" 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:														
Texas Instruments is pleased to announce the qualification of new assembly material set for devices listed in "Product affected" section below. Devices will remain in current assembly facility and piece part changes as follows:														
<table border="1"> <thead> <tr> <th>Material</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Mount compound</td> <td>4207768</td> <td>4207123</td> </tr> <tr> <td>Lead finish</td> <td>Standard NiPdAu</td> <td>Roughened NiPdAu</td> </tr> </tbody> </table>						Material	Current	Proposed	Mount compound	4207768	4207123	Lead finish	Standard NiPdAu	Roughened NiPdAu
Material	Current	Proposed												
Mount compound	4207768	4207123												
Lead finish	Standard NiPdAu	Roughened NiPdAu												
Reason for Change:														
Continuity of supply.														
Anticipated impact on Fit, Form, 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-Info website . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.											
Changes to product identification resulting from this PCN:														
None.														
Product Affected:														
DRV2700RGPR		DRV2700RGPT												

Qualification Report

DRV2700RGP with CRM1076NS and roughened LF at MSL2-260C

Approve Date 10-Aug-2017

Product Attributes

Attributes	Qual Device: DRV2700RGP	QBS Package Reference: SH6966ACC0RGCRG4	QBS Package Reference: SNA1038ARGC
Assembly Site	CLARK-AT	CLARK-AT	UL 94 V-0
Package Family	QFN	QFN	RGC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	HIJI	MIHO8	RFAB
Wafer Fab Process	LBCSOI	LBC7	LBC7

- QBS: Qual By Similarity

- Qual Device DRV2700RGP is qualified at LEVEL2-260C

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: DRV2700RGP	QBS Package Reference: SH6966ACC0RGCRG4	QBS Package Reference: SNA1038ARGC
AC	Autoclave 121C	96 Hours	1/77/0	3/231/0	3/231/0
CDM	ESD - CDM	1500 V	1/3/0	-	-
HBM	ESD - HBM	4000 V	1/3/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	-
HTOL	Life Test, 125C	1000 Hours	-	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	3/231/0	3/231/0
SD	Solderability	8 Hours Steam Age	-	3/66/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	3/231/0	-
TS	Thermal Shock - 65/150C	500 Cycles	-	3/231/0	-
UHA	Unbiased HAST 130C/85%RH	96 Hours	-	-	3/230/0
WBP	Bond Pull	Wires	1/76/0	3/228/0	-
WBS	Wire Bond Shear	Wires	1/76/0	3/228/0	-

- 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 regional contacts shown below or your local Field Sales Representative.

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