

PCN Number:	20240312001.1		PCN Date:	March 13, 2024								
Title:	Qualify New Assembly Material set for Selected Device(s)											
Customer Contact:	Change Management team	Dept:	Quality Services									
Proposed 1st Ship Date:	June 11, 2024	Sample requests accepted until:	April 12, 2024*									
*Sample requests received after April 12, 2024 will not be supported.												
Change Type:												
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>								
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>								
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>								
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>								
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>								
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>								
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process	<input type="checkbox"/>								
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>								
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Material	<input type="checkbox"/>								
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process	<input type="checkbox"/>								
PCN Details												
Description of Change:												
Texas Instruments is pleased to announce the qualification of new assembly material for devices listed in "Product affected" section below. Devices will remain in current assembly facility and piece part changes as follows:												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Material</th> <th style="width: 33%;">Current</th> <th style="width: 33%;">Proposed</th> </tr> </thead> <tbody> <tr> <td>Mount compound</td> <td>4208458</td> <td>4211470</td> </tr> </tbody> </table>					Material	Current	Proposed	Mount compound	4208458	4211470		
Material	Current	Proposed										
Mount compound	4208458	4211470										
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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">RoHS</th> <th style="width: 25%;">REACH</th> <th style="width: 25%;">Green Status</th> <th style="width: 25%;">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:												
BUF08821AIPWPR	LM46002PWP	TLC5955DCAR	TPS54526PWPR									
BUF08821BIPWPR	LM46002PWPT	TLC59711PWP	TPS54625PWP									
BUF08832AIPWPR	LM5122ZPWPR	TLC59711PWPR	TPS54625PWPR									
BUF16821AIPWPR	LM5122ZPWPT	TLC5971PWP	TPS54626PWP									
BUF16821BIPWPR	LM51561HPWPR	TLC5971PWPR	TPS54626PWPR									
DAC7750IPWP	LM5156HPWPR	TPA0102PWP	TPS54672PWP									
DAC7750IPWPR	LM5175PWPR	TPA0102PWPR	TPS54672PWPG4									
DAC7760IPWP	LM5175PWPT	TPA0103PWP	TPS54672PWPR									
DAC7760IPWPR	LM53602AMPWPR	TPA0103PWPR	TPS54672PWPRG4									
DAC8750IPWP	LM53602AMPWPT	TPA0152PWP	TPS54872PWP									
DAC8750IPWPR	LM53603AMPWPR	TPA0152PWPR	TPS55340PWP									

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DAC8760IPWPR	OPA2211SPWP	TPA0162PWPR	TPS5618PWP
DRV104PWP	PCM1681GPWPR	TPA0172PWP	TPS56300PWP
DRV104PWPR	PCM1681PWP	TPA0172PWPR	TPS5633PWP
DRV10873PWPR	PCM1690DCA	TPA0202PWP	TPS563900DAP
DRV10970PWP	PCM1690DCAR	TPA0202PWPR	TPS563900DAPR
DRV10970PWPR	PDRV10975ZFFPWP	TPA0212PWP	TPS56520PWP
DRV10974PWP	PDRV10975ZFGPWP	TPA0212PWPR	TPS56520PWPR
DRV10974PWPR	PDRV10975ZGFPWP	TPA0312PWP	TPS56720PWP
DRV10975FFPWP	PDRV10975ZGGPWP	TPA2000D2PWP	TPS56720PWPR
DRV10975FFPWPR	PDRV10983LGPWP	TPA2000D2PWPR	TPS56920PWP
DRV10975GFPWP	PDRV10987PWP	TPA2000D4DAP	TPS56920PWPR
DRV10975GFPWPR	PDRV10987PWPR	TPA2000D4DAPR	TPS56C20PWP
DRV10975PWP	PSN03007A1DCA	TPA2001D2PWP	TPS60100PWP
DRV10975ZPWP	PSN03007A1DCAR	TPA2001D2PWPR	TPS60100PWPR
DRV10975ZPWPR	PSNB7083A0DCA	TPA3020D2PWP	TPS60101PWP
DRV10978PWPR	PTPS9361QA0PWP	TPA3020D2PWPR	TPS60110PWP
DRV10983LDPWPR	SC76025A1DCAR	TPA3110LD2PWPR	TPS60110PWPG4
DRV10983LFPWP	SN004044W0PWPR	TPA3111D1PWP	TPS60110PWPR
DRV10983LFPWPR	SN005807MDCPR	TPA3112D1PWP	TPS60110PWPRG4
DRV10983LGPWPR	SN005826MDCPR	TPA3112D1PWPR	TPS60111PWP
DRV10983LIPWP	SN0608006PWPR	TPA3112SD1PWP	TPS60111PWPG4
DRV10983LIPWPR	SN0809080DAPR	TPA3112SD1PWPR	TPS60111PWPR
DRV10983PWP	SN0910037PWPR	TPA3114D2DAD	TPS60120PWP
DRV10983ZPWP	SN0910038PWPR	TPA3114D2DADR	TPS60120PWPR
DRV10983ZPWPR	SN1002018DAPR	TPA3120D2PWP	TPS60121PWP
DRV10987DPWP	SN1011047PWPR	TPA3120D2PWPR	TPS60122PWP
DRV10987DPWPR	SN10503PWP	TPA3121D2PWP	TPS60123PWP
DRV10987PWP	SN10970PWPR	TPA3121D2PWPG4	TPS60124PWP
DRV10987PWPR	SN10970SDPWPR	TPA3121D2PWPR	TPS60124PWPR
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DRV595DAP	SN1401009PWPR	TPA3156D2DAD	TPS60132PWP
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DRV604PWP	SN1406033DAPR	TPA3220DDW	TPS60133PWPR
DRV604PWPR	SN1B044PWPR	TPA3220DDWR	TPS60140PWP
DRV8303DCA	SN22020PWPR	TPA6010A4PWP	TPS60140PWPR
DRV8303DCAR	SN29023DAP	TPA6010A4PWPR	TPS60140PWPRG4
DRV8312DDW	SN29023DAPR	TPA6011A4PWP	TPS60141PWP
DRV8312DDWR	SN65HVS880PWPR	TPA6011A4PWPG4	TPS60141PWPR
DRV8313PWP	SN65HVS881PWPR	TPA6011A4PWPR	TPS61175PWP
DRV8412DDW	SN65HVS882PWPR	TPA6017A2PWP	TPS61175PWPR
DRV8412DDWR	SN65HVS882PWPRG4	TPA6017A2PWPR	TPS61193PWPR
DRV8704DCP	SN65HVS883PWPR	TPA6030A4PWP	TPS61194PWPR
DRV8704DCPR	SN65HVS885PWPR	TPA6030A4PWPR	TPS61196PWPR
DRV8711DCP	SN906008PWPR	TPIC1386DFDRG4	TPS61196PWPT
DRV8711DCPR	SN94022PWP	TPIC1405BDFDRG4	TPS61199PWP
DRV8800PWP	SN94022PWPR	TPIC1407DFDRG4	TPS61199PWPR
DRV8800PWPR	SNB4025DCP-P	TPIC1408DFDRG4	TPS61500PWP

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DRV8801PWPR	TAS3108DCP	TPIC2060ADFDRG4	TPS65230A2DCA
DRV8802PWP	TAS3108DCPR	TPIC2060RDFDRG4	TPS65230A2DCAR
DRV8802PWPR	TAS5102DAD	TPL9201PWP	TPS65231A2DCAR
DRV8803PWP	TAS5102DADR	TPL9201PWPR	TPS65232A2DCA
DRV8803PWP-P	TAS5103DAP	TPL9202PWP	TPS65232A2DCAR
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DRV8806PWPR	TAS5548DCAR	TPS2151IPWPR	TPS65291PWPR
DRV8808DCAR	TAS5558DCA	TPS2211APWP	TPS65291PWPT
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DRV8814PWP	TAS5602DCAR	TPS23754PWP-1	TPS75101QPWPR
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DRV8816PWPR	TAS5760LDCAR	TPS23756PWPR	TPS75115QPWPR
DRV8817DAP	TAS5760MDCAR	TPS23784PWP	TPS75118QPWP
DRV8817DAPR	TAS5760MDCAR	TPS23784PWPR	TPS75118QPWPR
DRV8821DCA	TAS5822MDCPR	TPS23785BPWP	TPS75125QPWP
DRV8821DCAR	TAS5828MDADR	TPS23785BPWPR	TPS75125QPWPG4
DRV8823DCA	THS3096PWP	TPS23785PWP	TPS75125QPWPR
DRV8823DCAR	THS3115CPWP	TPS23785PWPR	TPS75133QPWP
DRV8824PWP	THS3115CPWPR	TPS26400PWPR	TPS75133QPWPR
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DRV8829PWPR	THS6022CPWP	TPS27S100BPWPR	TPS75218QPWPR
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DRV8833CPWPR	THS6022IPWP	TPS2830PWP	TPS75225QPWPR
DRV8834PWP	THS6022IPWPR	TPS2830PWPR	TPS75233QPWP
DRV8834PWPR	THS6043CPWP	TPS2834PWP	TPS75233QPWPR
DRV8841PWP	THS6043IPWP	TPS2834PWPR	TPS75301QPWP
DRV8842PWP	THS6043IPWPR	TPS2835PWP	TPS75301QPWPR
DRV8843PWP	THS6053CPWPR	TPS51116PWP	TPS75315QPWP
DRV8843PWPR	THS6053IPWP	TPS51116PWPG4	TPS75318QPWP
DRV8844PWP	THS6053IPWPR	TPS51116PWPR	TPS75318QPWPR
DRV8860PWPR	THS6093CPWPR	TPS51116PWPRG4	TPS75325QPWP
DRV8873HPWPR	THS6093IPWP	TPS54225PWP	TPS75325QPWPR
DRV8873HPWPT	THS6093IPWPR	TPS54226PWP	TPS75333QPWP
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DRV8873SPWPT	THS7001CPWPR	TPS54290PWP	TPS75401QPWP
DRV8880PWP	THS7001IPWP	TPS54290PWPR	TPS75401QPWPR
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DRV8886ATPWP	TLC084AIPWP	TPS54295PWP	TPS8804DCPR
DRV8886ATPWPR	TLC084AIPWPR	TPS54295PWPR	TPS92380PWPR
DRV8886PWP	TLC084CPWP	TPS54325PWP	TPS92381PWPR
DRV8892PWP-P	TLC084CPWPR	TPS54325RPWPR	TPS92518HVPWPR
DRV8894PWP-P	TLC084IPWP	TPS54326PWP	TPS92518HVPWPT
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LM43600PWP	TLC085AIPWP	TPS54394PWP	TPS92518PWPT
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LM43600PWPT	TLC5923DAP	TPS54394PWPR	TPS92691PWPR
LM43601PWP	TLC5923DAPG4	TPS54395PWP	TPS92692PWP
LM43601PWPR	TLC5923DAPR	TPS54395PWPR	TPS92692PWPR
LM43601PWPT	TLC5924DAP	TPS54425PWP	TPS92692PWPT
LM43602PWP	TLC5924DAPR	TPS54425PWPR	TPS9361QPWPR
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LM43602PWPT	TLC5947DAP	TPS54426PWPR	UCD7100APWP
LM43603PWP	TLC5947DAP-P	TPS54429EPWP	UCD7100APWPR
LM43603PWPR	TLC5947DAPG4	TPS54429EPWPR	UCD7100PWP
LM43603PWPT	TLC5947DAPR	TPS54429PWP	UCD7100PWPR
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LM46000PWPR	TLC5951DAP	TPS54494PWP	UCD7201PWP
LM46000PWPT	TLC5951DAPR	TPS54494PWPR	UCD7201PWPG4
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LM46001PWPR	TLC5952DAPR	TPS54495PWPR	UCD8220PWP
LM46001PWPT	TLC5955DCA	TPS54526PWP	

Qualification Report

Approve Date 27-February-2024

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: DRV8412DDWR	Qual Device: PCM1690DCAR	QBS Reference: LP8880DCPRQ1
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	3/231/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	3/231/0	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	175C	500 Hours	-	-	3/135/0
HTOL	B1	Life Test	125C	1000 Hours	-	-	1/77/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	1/22/0	1/22/0	1/15/0
PD	C4	Physical Dimensions	Cpk>1.67	-	-	-	3/30/0
ESD	E2	ESD CDM	-	500 Volts	-	-	1/3/0
ESD	E2	ESD HBM	-	2000 Volts	-	-	1/3/0
LU	E4	Latch-Up	Per JESD78	-	-	-	1/6/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	1/30/0	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	-	3/90/0

QBS: Qual By Similarity

Qual Device DRV8412DDWR is qualified at MSL3 260C

Qual Device PCM1690DCAR is qualified at MSL3 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/>

For questions regarding this notice, e-mails can be sent to Change Management team or your local Field Sales Representative.

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