



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN#20180219000**

**Qualification of an improved material set for select devices in the QFP package  
Change Notification / Sample Request**

**Date:** February 23, 2018

**To:** Digi-Key PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

Sincerely,

PCN Team  
SC Business Services

**20180219000**  
**Attachment: 1**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
ADS1194CPAGR	null
ADS1198CPAG	null
ADS1294IPAG	null
ADS1296IPAG	null
ADS1298IPAG	null
ADS1299IPAG	null
ADS1299IPAGR	null
ADS130E08IPAG	null
ADS131E06IPAGR	null
ADS131E08IPAG	null
ADS131E08IPAGR	null
ADS131E08SPAG	null
ADS1672IPAG	null
ADS1675IPAG	null
ADS5231IPAG	null
ADS8365IPAGR	null
ADS8528SPM	null
ADS8548SPM	null
ADS8556IPM	null
ADS8556IPMR	null
ADS8568SPM	null
CC1010PAGR	null
CDC586PAH	null
DAC7718SPAG	null
DAC8541Y/250	null
DAC8718SPAG	null
DAC8718SPAGR	null
DP83849CVS/NOPB	null
DP83849CVSX/NOPB	null
DP83849IDVS/NOPB	null
DP83849IFVS/NOPB	null
DP83849IVS/NOPB	null
DP83849IVSX/NOPB	null
DS90C387AVJD/NOPB	null
DS90C387VJD/NOPB	null
DS90C387VJDX/NOPB	null
DS90CF388AVJD/NOPB	null
DS90CF388VJD/NOPB	null
DS90CR481VJD/NOPB	null
DS90CR483VJD/NOPB	null
DS90CR484VJD/NOPB	null
DS90CR485VS/NOPB	null
DS90CR486VS/NOPB	null
LM9833CCVJD/NOPB	null
LMH6586VS/NOPB	null
MSC1210Y5PAGT	null
MSC1211Y5PAGT	null
MSC1212Y4PAGT	null
MSC1214Y5PAGT	null
MSP430A092IPMR	null
MSP430F133IPM	null
MSP430F133IPMR	null
MSP430F135IPAG	null
MSP430F135IPM	null
MSP430F135IPMR	null
MSP430F1471IPM	null
MSP430F1471IPMR	null

MSP430F147IPM	null
MSP430F147IPMR	null
MSP430F1481IPM	null
MSP430F148IPAG	null
MSP430F148IPM	null
MSP430F148IPMR	null
MSP430F1491IPM	null
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MSP430F149IPMR	null
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MSP430F1612IPM	null
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MSP430F417IPM	null

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TMS320VC5502PGF200	null

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TMS320VC5507PGE	null
TMS320VC5509APGE	null
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TMS470R1B768PGET	null
TSB12LV01BPZT	null
TSB12LV32PZ	null
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TUSB3210PM	null
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TUSB3410IVFG4	null
TUSB3410VF	null
TUSB3410VFG4	null
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TVP5150AM1IPBSR	null
TVP5150AM1PBS	null
TVP5150AM1PBSR	null
TVP5150APBS	null
TVP5150APBSR	null
TVP5151IPBSR	null
TVP5151PBSR	null
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ADS1194CPAG	null
ADS1196CPAG	null
ADS130E08IPAGR	null
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ADS131E08SPAGR	null
ADS5231IPAGT	null
ADS5232IPAG	null
ADS5237IPAG	null
ADS5421Y/T	null
ADS5422Y/250	null
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CDC2586PAH	null
DAC7728SPAG	null
DAC8218SPAG	null
DAC8228SPAG	null
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DS90C387RVJD/NOPB	null
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DS90CR484AVJD/NOPB	null
DSD1608PAH	null
LM98519VHB/NOPB	null
LM98620VHB/NOPB	null
MSC1210Y2PAGT	null
MSC1210Y4PAGT	null
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MSC1211Y4PAGT	null
MSC1212Y3PAGT	null
MSC1212Y5PAGT	null
MSC1213Y3PAGT	null
MSC1213Y5PAGT	null
MSC1214Y3PAGT	null
MSC1214Y4PAGT	null
MSP430F133IPAG	null



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MSP430F1610IPM	null
MSP430F168IPM	null
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MSP430F2417TPNR	null
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MSP430FR69891IPZR	null
MSP430FR6989IPZR	null
MSP430FW423IPMR	null
MSP430FW428IPMR	null
PC12250PCM	null

PCI2250PGF	null
SN74ABT18502PM	null
SN74FB1653PCA	null
SRC4194IPAG	null
TAS5028PAG	null
TL16C550DIPT	null
TL16C554AIPN	null
TL16CP554AIPM	null
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TM4C1237H6PZI	null
TM4C123BH6PZI7	null
TM4C123GH6PGEI7	null
TM4C123GH6PZI7	null
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TMDS261BPAG	null
TMDS341PFC	null
TMDS351PAG	null
TMDS361BPAG	null
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TMS320F28054FPNT	null
TMS320F28054MPNT	null
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TMS320F28062FPZT	null
TMS320F28063PZT	null
TMS320F28065PNT	null
TMS320F28069FPNT	null
TMS320F28PLC84PNT	null
TMS320VC5503PGE	null
TSB12LV21BPGF	null
TUSB2136PM	null
UCD3138A64PFC	null
UCD3138A64PFCR	null

Technical details of this Product Change follow on the next page(s).

<b>PCN Number:</b>	20180219000	<b>PCN Date:</b>	Feb 23 2018									
<b>Title:</b>	Qualification of an improved material set for select devices in the QFP package											
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services									
<b>Proposed 1<sup>st</sup> Ship Date:</b>	May 23 2018	<b>Estimated Sample Availability:</b>	Provided upon Request									
<b>Change Type:</b>												
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process									
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Assembly Materials									
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification									
<input type="checkbox"/>		<input type="checkbox"/>	Mechanical Specification									
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling									
<input type="checkbox"/>		<input type="checkbox"/>	Test Process									
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material									
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process									
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials									
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process									
	<input type="checkbox"/>		Part number change									
<b>PCN Details</b>												
<b>Description of Change:</b>												
Texas Instruments is pleased to announce the qualification of a new material set for the devices listed in pg 2 of this notification as follows:												
<table border="1"> <thead> <tr> <th></th> <th><b>Current</b></th> <th><b>New</b></th> </tr> </thead> <tbody> <tr> <td><b>Mount Compound</b></td> <td>4042504 or 4208458</td> <td><b>4211470</b></td> </tr> <tr> <td><b>Mold Compound</b></td> <td>4205442 or 4211649 or 4210842 or 4207207 or 4205444</td> <td><b>4222198</b></td> </tr> </tbody> </table>					<b>Current</b>	<b>New</b>	<b>Mount Compound</b>	4042504 or 4208458	<b>4211470</b>	<b>Mold Compound</b>	4205442 or 4211649 or 4210842 or 4207207 or 4205444	<b>4222198</b>
	<b>Current</b>	<b>New</b>										
<b>Mount Compound</b>	4042504 or 4208458	<b>4211470</b>										
<b>Mold Compound</b>	4205442 or 4211649 or 4210842 or 4207207 or 4205444	<b>4222198</b>										
<b>Reason for Change:</b>												
Continuity of Supply												
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>												
None												
<b>Anticipated impact on Material Declaration</b>												
<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 <a href="#">TI ECO website</a> .									
<b>Changes to product identification resulting from this PCN:</b>												
Not Applicable												
<b>Product Affected</b>												
See Page 2												



## Qualification Report

### UniBOM Qualification for QFP packages in TIPI Approve Date 21-Dec-2017

#### Product Attributes

Attributes	Qual Device: PCI2250PGF	Qual Device: TL16CP554APM	Qual Device: TMS320F28062PZT	Qual Device: TMS320VC5509APGE
Assembly Site	PHI	PHI	PHI	PHI
Package Family	-	LQFP	LQFP	LQFP
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	TSMC-TA1	DL-LIN	DP1-DM5	DMOS6
Wafer Process	0.35UM-TSMC	50C21	18F05	1533C035

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL3-260C: PCI2250PGF, TMS320F28062PZT, TL16CP554APM
- Qual Device TMS320VC5509APGE is qualified at LEVEL4-260C

#### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: PCI2250PGF	Qual Device: TL16CP554APM	Qual Device: TMS320F28062PZT	Qual Device: TMS320VC5509APGE
AC	Autoclave, 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	500 Hours	3/231/0	3/231/0	3/231/0	3/231/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass
MSL	Moisture Sensitivity	Level 3-260C	3/36/0	3/36/0	3/36/0	3/36/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0
VM	Post Autoclave Visual Quality Reliability Inspection	--	3/6/0	3/6/0	-	-
VM	Post Temp. Cycle Visual Quality Reliability Inspection	--	3/6/0	3/6/0	-	-
YLD	FTY and Bin Summary	--	Pass	Pass	Pass	Pass

- 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/1000 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/1000 Hours, and 170C/420 Hours.
- The following are equivalent Temp Cycle options per JESD47: -65C/125C/700 Cycles and -65C/150C/500 Cycles.

Quality and Environmental data is available at TI's external Website: <http://www.ti.com/>

#### Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green



## Qualification Report

### UniBOM Qualification for QFP packages in TITL Approve Date 21-Dec-2017

#### Product Attributes

Attributes	Qual Device: ADS1675IPAG	Qual Device: MSP430FR6989IPZR	Qual Device: TL16C554AIPNR	Qual Device: TPS2383APMR
Assembly Site	TAI	TAI	TAI	TAI
Package Family	TQFP	LQFP	LQFP	LQFP
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	DP1DM5	DMOS6	DL-LIN	DL-LIN
Wafer Process	50HPA07	HPE035	C21	LBC4

- Qual Device ADS1675IPAG\_ is qualified at LEVEL4-260C  
- Qual Devices qualified at LEVEL3-260C: TPS2383APMR, TL16C554AIPNR, MSP430FR6989IPZR

#### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: ADS1675IPAG	Qual Device: MSP430FR6989IPZR	Qual Device: TL16C554AIPNR	Qual Device: TPS2383APMR
AC	Autoclave, 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0
HAST	Biased HAST, 130C, Vddmax	96 Hours	-	3/231/0	-	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	3/231/0	3/231/0	3/231/0	3/231/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass
MSL	Moisture Sensitivity	Level 3-260C	-	3/36/0	3/36/0	3/36/0
MSL	Moisture Sensitivity	Level 4-260C	3/36/0	-	-	-
TC	Temperature Cycle, -6C/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0
VM	Post Autoclave Visual Quality Reliability Inspection	--	-	-	3/6/0	3/6/0
VM	Post HAST/THB Visual Quality Reliability Inspection	--	-	1/2/0	-	-
VM	Post Temp. Cycle Visual Quality Reliability Inspection	--	-	-	3/6/0	3/6/0
YLD	FTY and Bin Summary	--	Pass	Pass	Pass	Pass

- 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/1000 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/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

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

Location	E-Mail
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
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Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>