



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20190411001.1

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

Date: April 26, 2019
To: PREMIER FARNELL 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 Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact the TI Samples Team at pcn_sr_team@list.ti.com.

Sincerely,

PCN Team
SC Business Services

20190411001.1
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.

DEVICE	CUSTOMER PART NUMBER
TPS61230DRCR	null
TPS74801DRCR	null
ADS114S06BIRHBT	null
ADS114S06IRHBT	null
ADS114S08BIRHBT	null
ADS114S08IRHBT	null
ADS124S06IRHBT	null
ADS124S08IRHBT	null
ADS8900BRGET	null
ADS8912BRGER	null
ADS8924BRGET	null
BQ24105RHRLR	null
BQ24113ARHLT	null
BQ25890RTWT	null
BQ25892RTWT	null
BQ25895MRTWT	null
BQ25895RTWT	null
BQ25896RTWT	null
BQ27200DRKR	null
BQ27750DRZT	null
BQ28Z610DRZT	null
BQ294624DRV	null
BQ294711DSGR	null
BQ296216DSGT	null
BQ296217DSGT	null
BQ4050RSMT	null
BQ40Z50RSMT-R2	null
BQ771817DPJT	null
BQ78Z100DRZT	null
CC113LRGPR	null
CC1200RHBR	null
CC1200RHBT	null
CC1350F128RGZT	null
CC1350F128RHBT	null
CC1350F128RSMT	null
CC2538SF53RTQT	null
CC2640R2FRGZT	null
CC2640R2FRHBT	null
CC2640R2FRSMT	null
CDCI6214RGER	null
CDCM6208V2GRGZT	null
DAC5681IRGCT	null
DAC5682ZIRGCT	null
DP83822HRHBT	null
DP83822IFRHBT	null
DP83822IRHBT	null
DP83867ERGZT	null
DRV8320HRTVT	null
DRV8320RHRHAT	null
DRV8320RSRHAT	null
DRV8320SRTVT	null
DRV8323HRTAT	null
DRV8323RHRGZT	null
DRV8323RSRGZT	null
DRV8323SRTAT	null
DRV8837CDSGT	null
HD3SS3412RUAT	null

HD3SS6126RUAR	null
LM5165DRCT	null
LM5165XDRCT	null
LM5165YDRCT	null
LM5166XDRCT	null
LM5166YDRCT	null
LM5175RHFT	null
LMH0397RTVT	null
LMX2572RHAT	null
LP5910-1.8DRVT	null
LP5912-0.9DRVT	null
LP5912-1.1DRVT	null
LP5912-1.2DRVT	null
LP5912-1.5DRVT	null
LP5912-1.8DRVT	null
LP5912-3.0DRVT	null
LP5912-3.3DRVT	null
MSP430FR2532IRGET	null
MSP430FR2632IRGET	null
MSP430FR5728IRGER	null
MSP430FR5728IRGET	null
MSP430FR5738IRGER	null
MSP430FR5738IRGET	null
MSP430FR5962IRGZR	null
MSP430FR5964IRGZR	null
MSP430FR5992IRGZR	null
MSP430FR5994IRGZT	null
OPA1612AIDRGR	null
OPA1612AIDRGT	null
OPA1622IDRCT	null
OPA1678IDRGT	null
OPA2316IDRGT	null
PCM1774RGPT	null
SN65DP141RLJT	null
SN65DPHY440SSRHRT	null
TAS5722LRSMR	null
TCA9555RGER	null
THS3215IRGVT	null
TLK1221RHAT	null
TLV320AIC3100IRHBR	null
TLV320AIC3100IRHBT	null
TLV320AIC3106IRGZT	null
TLV320AIC3120IRHBT	null
TLV320DAC3100IRHBR	null
TLV320DAC3100IRHBT	null
TLV320DAC3120IRHBT	null
TLV62084ADSGR	null
TLV62084ADSGT	null
TPA2016D2RTJR	null
TPA6120A2RGYT	null
TPD6S300RUKR	null
TPD8S300RUKR	null
TPS2113ADRBT	null
TPS22965DSGR	null
TPS22966DPUR	null
TPS22975DSGT	null
TPS22975NDSGT	null
TPS2546RTER	null
TPS2549RTET	null
TPS2557DRBR	null
TPS2561DRCR	null
TPS25740ARGET	null
TPS25740RGET	null
TPS25741ARSMT	null
TPS25741RSMT	null
TPS51125RGER	null
TPS51275B-1RUKT	null
TPS51315RGFT	null
TPS54120RGYT	null
TPS54218RTER	null

TPS55330RTER	null
TPS61045DRBR	null
TPS61080DRCR	null
TPS61080DRCT	null
TPS62240DRVR	null
TPS62240DRVT	null
TPS62262DRVT	null
TPS62293DRVT	null
TPS650860AORSKT	null
TPS6508647ORSKT	null
TPS65131RGET	null
TPS71745DSER	null
TPS74201RGWT	null
TPS74701DRCR	null
TPS74801RGWR	null
TPS74801RGWT	null
TPS7A1901DRBT	null
TUSB522PRGET	null
TUSB8041ARGCT	null
TUSB8042RGCT	null
TUSB8043RGCT	null
TUSB8044RGCT	null
UCC27212DPRT	null

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

PCN Number:	20190411001.1	PCN Date:	April 26 2019									
Title:	Qualification of an additional material set for select devices in the QFN package											
Customer Contact:	PCN Manager	Dept:	Quality Services									
Proposed 1st Ship Date:	July 26 2019	Estimated Sample Availability:	Provided upon Request									
Change Type:												
<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									
PCN Details												
Description of Change:												
Texas Instruments is pleased to announce the qualification of an additional material set for the devices listed in pg 2 of this notification as follows:												
<table border="1"> <thead> <tr> <th></th> <th>Current</th> <th>Additional</th> </tr> </thead> <tbody> <tr> <td>Mount Compound</td> <td>4207768</td> <td>4207123</td> </tr> <tr> <td>Mold Compound</td> <td>4208625</td> <td>4222198</td> </tr> </tbody> </table>					Current	Additional	Mount Compound	4207768	4207123	Mold Compound	4208625	4222198
	Current	Additional										
Mount Compound	4207768	4207123										
Mold Compound	4208625	4222198										
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 website .									
Changes to product identification resulting from this PCN:												
Not Applicable												
Product Affected												
See Page 2												

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

Type	Test Name / Condition	Duration	Qual Device: 27541DRZR_V200	Qual Device: 430FR5969IRGZR	Qual Device: AD51220IRVAR	Qual Device: AD58548SRGCR
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0
BLR	Board Level Reliability, Temp Cycle, -40/125C	1000 Cycles	-	-	-	-
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	-	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-
FLAM	Flammability (IEC 695-2-2)	--	-	-	-	-
FLAM	Flammability (UL 94V-0)	--	-	-	-	-
FLAM	Flammability (UL-1694)	--	-	-	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	-	-
HBM	ESD - HBM	1000 V	-	-	-	-
CDM	ESD - CDM	250 V	-	3/9/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/229/0	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	-
LU	Latch-up	(per JESD78)	-	-	-	-
PD	Physical Dimensions	--	3/15/0	3/15/0	3/15/0	3/15/0
PTC	Power Temperature Cycle, -40/125C	1000 Cycles	-	-	-	-
SD	Surface Mount Solderability	8 Hours Steam Age, Pb-Free	-	-	-	-
SD	Surface Mount Solderability	Pb	-	-	-	-
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-	-
UHAST	Unbiased HAST, 110C/85%RH	264 Hours	-	-	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	-
VM	Visual / Mechanical	(per mfg. Site specification)	3/984/0	3/984/0	3/984/0	3/984/0
WBP	Bond Pull	Wires	3/228/0	3/228/0	-	-
WBS	Ball Bond Shear	Wires	3/228/0	3/228/0	-	-

Type	Test Name / Condition	Duration	Qual Device: CC2541F256RHAR	Qual Device: DRV10866DSCR	Qual Device: RGC-DC	Qual Device: S320F28030R SHT
AC	Autoclave 121C	96 Hours	-	3/231/0	-	3/231/0
BLR	Board Level Reliability, Temp Cycle, -40/125C	1000 Cycles	-	-	1/32/0	-
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	-	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-
FLAM	Flammability (IEC 695-2-2)	--	-	-	-	-
FLAM	Flammability (UL 94V-0)	--	-	-	-	-
FLAM	Flammability (UL-1694)	--	-	-	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-
HBM	ESD - HBM	1000 V	-	-	-	-
CDM	ESD - CDM	250 V	-	-	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	3/231/0	-	-	3/230/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	-	-
LU	Latch-up	(per JESD78)	-	-	-	-
PD	Physical Dimensions	--	3/15/0	3/15/0	-	3/15/0
PTC	Power Temperature Cycle, -40/125C	1000 Cycles	-	-	-	-
SD	Surface Mount Solderability	8 Hours Steam Age, Pb-Free	-	-	-	3/66/0
SD	Surface Mount Solderability	Pb	-	-	-	-
TC	Temperature Cycle, -55/125C	700 Cycles	3/230/0	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0	-	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-	3/219/0
UHAST	Unbiased HAST, 110C/85%RH	264 Hours	3/231/0	-	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	3/231/0	-	-
VM	Visual / Mechanical	(per mfg. Site specification)	3/984/0	3/984/0	-	3/984/0
WBP	Bond Pull	Wires	-	3/228/0	-	3/228/0
WBS	Ball Bond Shear	Wires	-	3/228/0	-	3/228/0

Type	Test Name / Condition	Duration	Qual Device: TPS6300DRCR	Qual Device: TPS6531WDSKR	QBS Package Reference: TPS7A4701QRGWQ1	QBS Package Reference: TRS3122ERGER
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0
BLR	Board Level Reliability, Temp Cycle, -40/125C	1000 Cycles	-	-	1/32/0	-
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	-	-	3/90/0	-
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	1/30/0
FLAM	Flammability (IEC 695-2-2)	--	-	-	-	3/15/0
FLAM	Flammability (UL 94V-0)	--	-	-	-	3/15/0
FLAM	Flammability (UL-1694)	--	-	-	-	3/15/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	3/231/0
HBM	ESD - HBM	1000 V	-	-	1/3/0	-
CDM	ESD - CDM	250 V	-	-	1/3/0	-
HTOL	Life Test, 125C	1000 Hours	-	-	3/231/0	-
HTOL	Life Test, 150C	300 Hours	-	-	-	1/77/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	1/45/0	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	3/230/0	-	-
LU	Latch-up	(per JESD78)	-	-	1/12/0	1/6/0
PD	Physical Dimensions	--	3/15/0	3/15/0	3/30/0	3/30/0
PTC	Power Temperature Cycle, -40/125C	1000 Cycles	-	-	1/50/0	-
SD	Surface Mount Solderability	8 Hours Steam Age, Pb-Free	3/66/0	-	1/15/0	1/22/0
SD	Surface Mount Solderability	Pb	-	-	1/15/0	-
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/225/0	3/231/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-	-
UHASt	Unbiased HAST, 110C/85%RH	264 Hours	-	-	-	-
UHASt	Unbiased HAST, 130C/85%RH	96 Hours	-	-	-	-
VM	Visual / Mechanical	(per mfg. Site specification)	3/984/0	3/984/0	-	3/984/0
WBP	Bond Pull	Wires	3/228/0	3/228/0	3/90/0	3/228/0
WBS	Ball Bond Shear	Wires	3/228/0	3/228/0	3/90/0	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 contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW PCN Team	PCN_ww_admin_team@list.ti.com