



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:

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

TPS74201RGWT
TPS74701DRCR
TPS74201RGWT
TPS74701DRCR
SND9039A2CTRSKT
TPS74801RGWTG4
TPS74201RGWR
TPS53315RGFT
TPS74701DRCR
TPS74801DRCR
CDCM6208V1YRGZR
TPS74201RGWR
TPS74801DRCR
TPS51315RGFR
TPS53315RGFR
TPS74801RGWR
TPS53314RGFR
TPS2561DRCR
PCM5242RHBT
CC2640R2FRHBT
TPS22975DSGR
CC2640R2FRSMR
CC113LRGPR
TPS74801DRCR
TPS74801RGWR
TPS74201RGWT
DP83822IRHBT
TPS74701DRCR
TPS2557DRBR
ADS61B49IRGZR
TPS74201RGWR
TPS22965DSGR
ADS61B49IRGZR
ADS6149IRGZR
TPS54218RTER
TPS22965DSGR
CDCM6208V1ERGZR
CDCM6208V1ERGZT
CDCM6208V2GRGZR
CDCM6208V2GRGZT
TPS54218RTER
TPS74701DRCR
TPS74201RGWR
TPS74201RGWT
TPS55330RTER
TPS54218RTER
TPS74201RGWR
TPS22962DNYR
TPS74201RGWR
CDCM6208V1ERGZR
TPS74201RGWT
CDCM6208V1ERGZT
TPS74201RGWT
TPS54218RTER
TPS54218RTER
TRF3722IRGZR
TPS74701DRCR

ADS61B49IRGZT
TPS74201RGWR
ADS6149IRGZR
ADS6149IRGZR
TPS74201RGWR
CDCM6208V1ZRGZR
TPS74201RGWR
ADS6148IRGZR
ADS6148IRGZT
CDCM6208V1ZRGZT
ADS61B49IRGZR
ADS61B49IRGZT
TPS74801DRCR
TPS54218RTER
TPS74701DRCR
TLV320AIC3106IRGZR
TPS74701DRCR
TPA6135A2RTER
TPS62510DRCR
TPS74801DRCR
DP83822IRHBR
TPS2553DRV-1
TPS2553DRV-1
TPS2553DRV-1
TPS55330RTER
TPS2113ADRBR
TPS22975DSGR
TPS74801DRCR
TPS53667RTAT
TPS74201RGWR
TPS74201RGWT
TPS74201RGWR
TPS74201RGWR
TPS51315RGFR
TPS53315RGFR
TPS53314RGFR
TPS74801DRCR
TPS51315RGFR
TPS51315RGFT
TPS53315RGFR
TPS54218RTER
TPS53314RGFR
TPS53678RSLR
TPS53678RSLT
TPS74801DRCR
TPS53315RGFR
TPS53315RGFT
TPS2557DRBR
TPS74201RGWR
TPS74701DRCR
TPS74801DRCR
TPS2546RTER
CDCM6208V1YRGZT
CDCM6208V1ERGZT
TPS74201RGWR
TPS74201RGWT
TPS74801DRCR
TPS51315RGFR
TPS51315RGFT
TPS53315RGFR
TPS53315RGFT
TPS74801RGWR
TPS53314RGFR
TPS53314RGFT
TPS2561DRCR
HD3SS3415RUAR
TPS74801DRCR
TPS51315RGFR
TPS53315RGFR
TPS53314RGFR

TPS54218RTER
TPS74801RGWR
BQ24105RHLR
TPS74801DRCR
TPS62140ARGTR
TPS74801DRCR
TPS74201RGWR
DP83867IRRGZR
TPS74701DRCR
TPS70933DRVR
TPS70933DRVR
CC2640R2FRGZR
TPS74801DRCR
DP83822IRHBR
TPS74201RGWR
SN65LVPE512RGER
TPS74201RGWT
TPS62240DRVT
TPS53314RGFT
TPS70933DRVR
TPS74801DRCR
TPS74701DRCR
BQ25892RTWR
TPS74701DRCR
TPS2561DRCR
TPS22966DPUR
TPS2546RTER
HD3SS6126RUAR
TPS22969DNYS
TPS22969DNYT
SN65LVPE512RGER
BQ25892RTWR
BQ25892RTWT
TPS650941A0RSKR
TPS650941A0RSKT
TPD6S300RUKR
TPS51980ARTVR
MSP432P401RIRGCR
DP83867ERGZT
DRV8837CDSGR
TPS70933DRVR
TPS51113DRCR
TPS62262DRVT
TPS62262DRVT
BQ24133RGYR
LP5912-3.3DRVR
TPS7A1901DRBR
TPS71745DSER
TPS74701DRCRG4
TPS2561DRCR
TS3DS10224RUKR
HD3SS0001RLLR
SN0903049DRGR
CD3211A1RGPR
TPS51916ARUKR
TPS54622ARHLR
TPS22969DNYT
TPS72015DRVR
TPS51980ARTVR
TPS51916ARUKR
TPS54622ARHLR
TAS5758LRSMR
TPS53315RGFT
TPS54218RTER
TPS74701DRCR
TPS53315RGFR
TPS53315RGFT
TPS53314RGFR
TPS53314RGFT
LP5912-1.8DRVR

LP5912-1.8DRV
TPS74801DRCR
TPS74801RGWR
TPS74701DRCR
TPS74801DRCR
TPS53315RGFR
TPS53315RGFT
CC2640R2FRGZR
TPS62140ARGTR
TPS62140ARGTR
CC2640R2FRGZR
MSP430FR5962IRGZR
SES2510F32RHHR
TPS22968DPUR
CC1020RSSR
CC1020RSSR
CC1020RSSR
TPS53314RGFR
TPS53314RGFT
TPS62510DRCR
TPS51980ARTVR
TPS74801DRCR
TPS53315RGFR
SN65DP141RLJT
OPA2172IDRGR
BQ24232HRGTR
TPS74801RGWR
TPS74801RGWT
TPS61230DRCR
TPS74801RGWR
TPS74701DRCR
TPS74801DRCR
TPS74201RGWR
TPS53315RGFR
TPS53315RGFT
TPS22962DNYR
TPS74801DRCR
TPS62140ARGTR
TPS2557DRBR
TPS22966DPUR
TLV320DAC3100IRHBR
TPS74701DRCR
BQ24232HRGTR
CC2640R2FRGZR
CC2640R2FRGZR
TPS2553DRVR-1
TPS54218RTER
TPS62510DRCR
TPS74801DRCRG4
TPS74701DRCR
TPS2557DRBR
TPS70933DRVR
TPS55330RTER
HD3SS460IRNHR
TPS74201RGWT
TPS74201RGWR
TSC2046IRGVR
TPS74801DRCR
TPS74701DRCR
TPS54218RTER
TLV320AIC3100IRHBR
TPS70933DRVR
TPS2553DRVR-1
TPS22969DNYT
TPS22969DNYT
TPS22969DNYT
TPS22969DNYT
TPS22965DSGR
TPS74801DRCR
TPS74801DRCR

TPS74201RGWRG4
DRV8323SRTAR
TPS40197RGYR
DAC3283IRGZR
DAC3283IRGZT
ADS61B29IRGZR
TPS74801DRCCR
DAC5682ZIRGCR
TPS74701DRCCR
TRF3722IRGZR
TPS74201RGWRG4
TPS74801DRCRG4
TPS72015DRVR
TPS74201RGWRG4
BQ24232HRGTR
BQ24232HRGTR
BQ27000DRKRG4
BQ24133RGYR
TPS74801DRCCR
TPS74801DRCCR
TPS54218RTER
TPS62240DRVR
DP83822HRHBR
DP83822IRHBR
DP83822IRHBT
TPS54218RTER
TPS54218RTER
DP83822IRHBT
DP83822IRHBR
TPS62751DSKT
TPS51315RGFR
TPS74801RGWR
DRV8320SRTVR
DRV8320RSRHAR
TPS54218RTER
BQ24232HRGTR
TS3DS10224RUKR
TPS2553DRVR-1
TPS2553DRVR-1
TPS74801RGWTG4
ADS6149IRGZT
TPS62262DRVR
TPS62262DRVT
TPS74701DRCCR
LMH1297RTVT
ADS6149IRGZT
TLV62084ADSGR
CC2640R2FRHBR
CC1200RHBR
CC1200RHBR
CC1200RHBR
DP83822IRHBR
DP83867ERGZT
CC2538NF53RTQR
TLV320AIC3100IRHBR
TPS51200MDRCTEP
TPS2557DRBR
TPS74701DRCCR
TPS61080DRCCR
TPS2557DRBR
TPS62510DRCCR
TLV320DAC3120IRHBR
TPS22965DSGR
TPS22965DSGR
TPS74801DRCCR
ADC3422IRTQT
ADS8900BRGET
BQ24705RGER
BQ25895RTWR
BQ25895RTWT

BQ28Z610DRZT
CC2640R2FRGZT
DAC5688IRGCT
DAC5689IRGCT
DP83867IRRGZT
DP83867ISRGZR
DP83867ISRGZT
DRV8323RSRGZT
HD3SS3412RUAT
LP5910-1.8DRVR
LP5912-1.2DRVR
LP5912-3.3DRVT
MSP430FR2532IRGET
MSP430FR5738IRGER
OPA1622IDRCR
OPA1688IDRGR
SN65DP141RLJR
SN75DPHY440SSRHRT
SNE8038CORSR
SNE8038DORSR
TAS5722LRSMR
TLV320AIC3106IRGZT
TLV320AIC3120IRHBT
TLV320DAC3120IRHBT
TMP513AIRSAR
TPA5050RSAT
TPS2113ADRBT
TPS25940LRVCR
TPS40195RGYT
TPS40197RGYT
TPS53626RSMR
TPS53626RSMT
TPS60230RGTR
TPS61045DRBT
TPS65131RGER
TPS70950DRVR
TPS74201RGWTG4
TUSB522PRGET
BQ24703RHDR
BQ25890RTWR
BQ25896RTWR
HPA01055DRBR
LP5910-1.8DRVT
LP5912-0.9DRVR
LP5912-2.8DRVT
MSP432P401RIRGCT
DAC3282IRGZT
DAC5681IRGCT
DRV8320SRTVT
HD3SS3412RUAR
SN65LVPE512RMQR
TLV320DAC3100IRHBT
TPS65131RGET
TUSB522PRGER
TPS650940A0RSKT

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:					
☐	Assembly Site	☐	Assembly Process	☒	Assembly Materials
☐	Design	☐	Electrical Specification	☐	Mechanical Specification
☐	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process
	☐	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:					
		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					
☐	No Impact to the Material Declaration	☒	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	-	-	-	-
UHA	Unbiased HAST, 110C/85%RH	264 Hours	-	-	-	-
UHA	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: S320F28030RSH
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
UHA	Unbiased HAST, 110C/85%RH	264 Hours	3/231/0	-	-	-
UHA	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: TPS63000DRCR	Qual Device: TPS65631WDSKR	QBS Package Reference: TPS7A4701QRGWRQ1	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	-	-	-	-
UHA	Unbiased HAST, 110C/85%RH	264 Hours	-	-	-	-
UHA	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