

PCN Number:	20180319003	PCN Date:	March 29 2018									
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:	June 29 2018	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 Report

Clark UniBOM 4222198 and 4207123 Enterprise Qualification

Approve Date 05-Mar-2018

Product Attributes

Attributes	Qual Device: 27541DRZR-V200	Qual Device: 430FR5969IRGZR	Qual Device: ADS1220IRVAR	Qual Device: ADS8548SRGCR
Assembly Site	CLARK AT	CLARK AT	CLARK AT	CLARK AT
Package Family	VSON	VQFN	VQFN	VQFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	DFAB, TSMC WFT	DMOS 6	AIZU	DM055
Wafer Fab Process	LBC4-X, TSMC 0.25	HPE035	HPA07	50HPA07HF.03DR

- QBS: Qual By Similarity
- Qual and QBS Devices qualified at LEVEL2-260CG: 27541DRZR-V200, ADS1220IRVAR
- Qual Devices qualified at LEVEL3-260CG: ADS8548SRGCR, 430FR5969IRGZR
- Device 27541DRZR-V200 contains multiple dies.

Attributes	Qual Device: CC2541F256RHAR	Qual Device: DRV10866DSCR	Qual Device: RGC-DC	Qual Device: S320F28030RSHT
Assembly Site	CLARK AT	CLARK AT	CLARK AT	CLARK-AT
Package Family	VQFN	WSON	VQFN	VQFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	TSMC WFT	RFAB	-	DM055
Wafer Fab Process	0.18-DP5M-FLASH	LBC7	-	18F05.25L

- QBS: Qual By Similarity
- Qual and QBS Devices qualified at LEVEL2-260CG: DRV10866DSCR
- Qual Devices qualified at LEVEL3-260CG: RGC-DC, CC2541F256RHAR, S320F28030RSHT

Attributes	Qual Device: TPS63000DRCR	Qual Device: TPS65631WDSKR	QBS Package Reference: TPS7A4701QRGWRQ1	QBS Package Reference: TRS3122ERGER
Assembly Site	CLARK-AT	CLARK AT	CLARK AT	CHENGDU A/T
Package Family	VSON	WSON	QFN, 5 x 5 MM	VQFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	MIHO 8	RFAB	FREISING (FFAB)	RFAB
Wafer Fab Process	LBC7	LBC7X	BICOM3-HV	LBC7

- QBS: Qual By Similarity
- Qual Device qualified at LEVEL1-260CG: TPS65631WDSKR
- Qual and QBS Devices qualified at LEVEL2-260CG: TPS63000DRCR, TPS7A4701QRGWRQ1, TRS3122ERGER

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: ADS1220IRVAR	Qual Device: AD8548SRGCR
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	-	-

- 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

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

Type	Test Name / Condition	Duration	Qual Device: CC2541F256RHAR	Qual Device: DRV10866DSCR	Qual Device: RGC-DC	Qual Device: S320F28030RSHHT
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

- 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

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TPS63000DRCCR	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 JEDEC78)	-	-	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 JEDEC47 : -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:

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	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com

20180319003
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
TPS24720RGTR	null
TPS51200DRCR	null
ADS1120IRVAR	null
ADS1148IRHBT	null
ADS1191IRSMT	null
ADS1220IRVAR	null
ADS1220IRVAT	null
ADS1291IRSMT	null
ADS1292IRSMT	null
ADS1292RIRSMT	null
ADS7863ARGET	null
ADS8028IRTJT	null
ADS8528SRGCT	null
ADS8568SRGCT	null
ADS8634SRGER	null
ADS8634SRGET	null
ADS8638SRGER	null
ADS8638SRGET	null
ADS9120IRGET	null
AFE030AIRGZT	null
AFE031AIRGZR	null
AFE031AIRGZT	null
AFE4400RHAR	null
AFE4400RHAT	null
AFE4490RHAT	null
AMC7812BSRGCT	null
AMC7812SRGCT	null
AMC7891SRHHT	null
BQ24040DSQR	null
BQ24040DSQT	null
BQ24072RGTR	null
BQ24072RGTT	null
BQ24072TRGTR	null
BQ24072TRGTT	null
BQ24073RGTR	null
BQ24073RGTT	null
BQ24073RGTTG4	null
BQ24074RGTR	null
BQ24074RGTT	null
BQ24075RGTR	null
BQ24075RGTT	null
BQ24075TRGTR	null
BQ24075TRGTT	null
BQ24079RGTR	null
BQ24079RGTT	null
BQ24085DRCCR	null
BQ24086DRCCR	null
BQ24130RHLT	null
BQ24133RGYT	null
BQ24160ARGET	null
BQ24160RGET	null
BQ24161BRGET	null
BQ24161RGET	null
BQ24163RGET	null
BQ24166RGER	null
BQ24166RGET	null
BQ24167RGET	null

BQ24170RGYR	null
BQ24170RGYT	null
BQ24171RGYR	null
BQ24171RGYT	null
BQ24172RGYT	null
BQ24190RGER	null
BQ24190RGET	null
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BQ24195RGET	null
BQ24196RGER	null
BQ24196RGET	null
BQ24210DQCR	null
BQ24210DQCT	null
BQ24230RGTR	null
BQ24230RGTT	null
BQ24232HARGTT	null
BQ24232HRGTT	null
BQ24232RGTR	null
BQ24232RGTT	null
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BQ24617RGER	null
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BQ24618RGET	null
BQ24630RGER	null
BQ24630RGET	null
BQ24640RVAR	null
BQ24640RVAT	null
BQ24707RGRT	null
BQ24715RGRR	null
BQ24715RGRT	null
BQ24721CRHBR	null

BQ24725ARGRR	null
BQ24725ARGRT	null
BQ24725RGRT	null
BQ24735RGRR	null
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BQ24770RUYT	null
BQ24773RUYT	null
BQ24780SRUYR	null
BQ24780SRUYT	null
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BQ25070DQCT	null
BQ25071DQCT	null
BQ25504RGTR	null
BQ25504RGTT	null
BQ25505RGRR	null
BQ25505RGRT	null
BQ25570RGRR	null
BQ25570RGRT	null
BQ25890HRTWT	null
BQ27410DRZR-G1	null
BQ27410DRZT-G1	null
BQ27411DRZT-G1A	null
BQ27411DRZT-G1C	null
BQ27441DRZR-G1A	null
BQ27441DRZT-G1A	null
BQ27441DRZT-G1B	null
BQ27510DRZR-G3	null
BQ27510DRZT-G3	null
BQ27541DRZR-G1	null
BQ27541DRZT-G1	null
BQ27541DRZT-V200	null
BQ27542DRZR-G1	null
BQ27542DRZT-G1	null
BQ282610DRZR	null
BQ29200DRBT	null
BQ29209DRBR	null
BQ29440DRBT	null
BQ294502DRVR	null
BQ294504DRVR	null
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BQ40Z50RSMT-R1	null
BQ40Z60RHBT	null
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BQ500212ARGZR	null
BQ500212ARGZT	null
BQ500215RGCT	null
BQ500410ARGZT	null
BQ500412RGZR	null
BQ501210RGCT	null
BQ51013ARHLR	null
BQ51013ARHLT	null
BQ51013BRHLR	null
BQ51013BRHLT	null
BQ51050BRHLR	null
BQ51050BRHLT	null
BQ51051BRHLR	null
BQ51051BRHLT	null
BQ76925RGET	null
BQ771605DPJT	null
BQ771612DPJT	null
BQ771807DPJT	null
BQ771815DPJT	null
BUF08630RGWR	null
CC1101RGP	null
CC1101RGPR	null
CC1101RGPT	null
CC110LRGPR	null
CC110LRGPT	null
CC1110F32RHHR	null
CC1110F32RHHT	null
CC1110F8RHHR	null
CC1120RHBR	null
CC1120RHBT	null
CC1121RHBR	null
CC1121RHBT	null
CC1125RHBR	null
CC1125RHBT	null
CC115LRGPR	null
CC1175RHBR	null
CC1175RHBT	null
CC1310F128RGZR	null
CC1310F128RGZT	null
CC1310F128RHBR	null
CC1310F128RHBT	null
CC1310F128RSMR	null
CC1310F128RSMT	null
CC1310F32RGZT	null
CC1310F32RHBT	null
CC1310F32RSMT	null
CC1310F64RGZT	null
CC1310F64RHBR	null
CC1310F64RHBT	null
CC1310F64RSMR	null
CC1310F64RSMT	null
CC2420RGZR	null
CC2420RGZT	null
CC2500RGP	null
CC2500RGPR	null
CC2510F32RHHR	null
CC2510F32RHHT	null
CC2530F128RHAR	null

CC2530F128RHAT	null
CC2530F256RHAR	null
CC2530F256RHAT	null
CC2530F32RHAT	null
CC2531F128RHAR	null
CC2531F256RHAR	null
CC2531F256RHAT	null
CC2533F32RHAR	null
CC2533F64RHAR	null
CC2540F128RHAR	null
CC2540F128RHAT	null
CC2540F256RHAR	null
CC2540F256RHAT	null
CC2540TF256RHAT	null
CC2541F128RHAR	null
CC2541F128RHAT	null
CC2541F256RHAR	null
CC2541F256RHAT	null
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CC2543RHBT	null
CC2545RGZR	null
CC2595RGTR	null
CC2620F128RGZT	null
CC2620F128RSMT	null
CC2630F128RGZT	null
CC2630F128RHBT	null
CC2630F128RSMT	null
CC2640F128RGZR	null
CC2640F128RGZT	null
CC2640F128RHBR	null
CC2640F128RHBT	null
CC2640F128RSMR	null
CC2640F128RSMT	null
CC2650F128RGZR	null
CC2650F128RGZT	null
CC2650F128RHBR	null
CC2650F128RHBT	null
CC2650F128RSMR	null
CC2650F128RSMT	null
CDCLVC1310RHBR	null
CDCLVD1204RGTR	null
CDCLVD1204RGTT	null
CDCLVD1208RHDT	null
CDCLVD1212RHAR	null
CDCLVD1212RHAT	null
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Technical details of this Product Change follow on the next page(s).