

<b>PCN Number:</b>	20230706000.1	<b>PCN Date:</b>	July 06, 2023									
<b>Title:</b>	Qualification of additional mold and mount compound for select devices											
<b>Customer Contact:</b>	Change Management Team	<b>Dept:</b>	Quality Services									
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Oct 4, 2023	<b>Sample requests accepted until:</b>	Aug 6, 2023									
<b>*Sample requests received after Aug 6, 2023 will not be supported.</b>												
<b>Change Type:</b>												
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design									
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet									
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change									
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site									
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process									
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material									
		<input type="checkbox"/>	Wafer Bump Process									
		<input type="checkbox"/>	Wafer Fab Site									
		<input type="checkbox"/>	Wafer Fab Material									
		<input type="checkbox"/>	Wafer Fab Process									
<b>PCN Details</b>												
<b>Description of Change:</b>												
This PCN is to inform of an alternate mold and mount compound qualification for the devices listed below as follows:												
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 30%;">What</th> <th style="width: 35%;">Current</th> <th style="width: 35%;">New</th> </tr> </thead> <tbody> <tr> <td><b>Mount Compound</b></td> <td><b>4207768</b></td> <td><b>4207123</b></td> </tr> <tr> <td><b>Mold Compound</b></td> <td><b>4208625</b></td> <td><b>4222198</b></td> </tr> </tbody> </table>				What	Current	New	<b>Mount Compound</b>	<b>4207768</b>	<b>4207123</b>	<b>Mold Compound</b>	<b>4208625</b>	<b>4222198</b>
What	Current	New										
<b>Mount Compound</b>	<b>4207768</b>	<b>4207123</b>										
<b>Mold Compound</b>	<b>4208625</b>	<b>4222198</b>										
<b>Reason for Change:</b>												
Continuity of supply												
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>												
None												
<b>Impact on Environmental Ratings</b>												
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%; text-align: center;"> <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> </tr> </tbody> </table>				RoHS	REACH	Green Status	IEC 62474	<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:**

Not applicable

**Product Affected:**

BQ24133RGYR	MSP430F2111TRGET	MSP430G2152IRSA16R	SN1901029RGWR
INA300AIDSQT	MSP430F2121IRGER	MSP430G2152IRSA16T	SN2003043DRBR
INA3221AIRGVR	MSP430F2121IRGET	MSP430G2201IRSA16R	SN2204031RSLR
INA3221AIRGVT	MSP430F2121TRGET	MSP430G2201IRSA16T	SN54620RGYR
LMZ30602RKGR	MSP430F2131IRGER	MSP430G2202IRSA16R	SN54622RHLLR
LMZ30602RKGT	MSP430F2131TRGER	MSP430G2202IRSA16T	SN54678RTER
LMZ30604RKGR	MSP430F2131TRGET	MSP430G2211IRSA16R	SN8C050B0RGZR
LMZ30604RKGT	MSP430F2232IRHAR	MSP430G2211IRSA16T	TPS22968DPUR
LMZ31503RUQR	MSP430F2232IRHAT	MSP430G2212IRSA16R	TPS22976ADPUR
LMZ31503RUQR-P	MSP430F2232TRHAR	MSP430G2212IRSA16T	TPS2505B1RGWR
LMZ31503RUQT	MSP430F2232TRHAT	MSP430G2221IRSA16R	TPS51218DSCR
LMZ31506HRUQR	MSP430F2234IRHAT	MSP430G2221IRSA16T	TPS51980BRTVR
LMZ31506HRUQT	MSP430F2234TRHAT	MSP430G2231IRSA16R	TPS54427DRCCR
LMZ31506RUQR	MSP430F2252IRHAR	MSP430G2231IRSA16T	TPS54427DRCT
LMZ31506RUQR-P	MSP430F2252IRHAT	MSP430G2232IRSA16R	TPS54428DRCCR
LMZ31506RUQT	MSP430F2252TRHAR	MSP430G2232IRSA16T	TPS54428DRCT
MSP430F2001IRSAR	MSP430F2252TRHAT	MSP430G2252IRSA16R	TPS55330RTER
MSP430F2001IRSAT	MSP430F2254IRHAR	MSP430G2252IRSA16T	TPS62140ARGTR
MSP430F2001TRSAR	MSP430F2254TRHAR	MSP430G2302IRSA16R	TPS65281-1RGVR
MSP430F2001TRSAT	MSP430F2254TRHAT	MSP430G2302IRSA16T	TPS65281RGVR
MSP430F2002IRSAR	MSP430F2272IRHAR	MSP430G2312IRSA16R	TPS70918DRVR-S
MSP430F2002IRSAT	MSP430F2272IRHAT	MSP430G2312IRSA16T	TPS70930DRVR-S
MSP430F2002TRSAR	MSP430F2272TRHAR	MSP430G2332IRSA16R	TPS70933DRVR-S
MSP430F2002TRSAT	MSP430F2272TRHAT	MSP430G2332IRSA16T	TPS70950DRVR-S
MSP430F2003IRSAR	MSP430F2274IRHAR	MSP430G2352IRSA16R	TPS84210RKGR
MSP430F2003IRSAT	MSP430F2274IRHAT	MSP430G2352IRSA16T	TPS84210RKGT
MSP430F2003TRSAR	MSP430F2274TRHAR	MSP430G2402IRSA16R	TPS84320RUQR
MSP430F2003TRSAT	MSP430F2274TRHAT	MSP430G2402IRSA16T	TPS84320RUQT
MSP430F2011IRSAR	MSP430FR2533IRHBR	MSP430G2412IRSA16T	TPS84410RKGR
MSP430F2011IRSAT	MSP430FR2533IRHBT	MSP430G2432IRSA16R	TPS84410RKGT
MSP430F2011TRSAR	MSP430FR2633IRHBR	MSP430G2432IRSA16T	TPS84620RUQR
MSP430F2011TRSAT	MSP430FR2633IRHBT	MSP430G2444IRHA40R	TPS84620RUQT
MSP430F2012IRSAR	MSP430G2001IRSA16R	MSP430G2452IRSA16R	TPS84621RUQR
MSP430F2012IRSAT	MSP430G2001IRSA16T	MSP430G2452IRSA16T	TPS84621RUQT
MSP430F2012TRSAR	MSP430G2101IRSA16R	MSP430G2544IRHA40R	TS3A225ERTER
MSP430F2012TRSAT	MSP430G2101IRSA16T	MSP430G2544IRHA40T	TUSB8040A1RKMR
MSP430F2013IRSAR	MSP430G2102IRSA16T	MSP430G2744IRHA40R	UCD3020ARGZR
MSP430F2013IRSAT	MSP430G2111IRSA16R	MSP430G2744IRHA40T	UCD3020ARGZT
MSP430F2013TRSAR	MSP430G2111IRSA16T	MSP430V203IRGER	UCD3020RGZT
MSP430F2013TRSAT	MSP430G2112IRSA16T	MSP430V229IRSAR	UCD3028RHAR

MSP430F2101IRGER	MSP430G2121IRSA16R	MSP430V277IRSAR	UCD3028RHAT
MSP430F2101IRGET	MSP430G2121IRSA16T	MSP430V325IRHAR	UCD3040RGCT
MSP430F2101TRGER	MSP430G2131IRSA16R	MSP430V372IRHA40R	UCD3138RHAR
MSP430F2111IRGER	MSP430G2131IRSA16T	MSP430V388IRSA16R	UCD3138RHAT
MSP430F2111IRGET	MSP430G2132IRSA16R	MSP430V593IRHAR	WPMDB1200362QT
MSP430F2111TRGER	MSP430G2132IRSA16T	SN10224RUKR	WPMDB1400362QT



TI Information  
Selective Disclosure

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

Type	Test Name / Condition	Duration	Qual Device: 7Z541102ZK/2008	Qual Device: 45F45555H2C/2R	Qual Device: AD13228RV/AR	Qual Device: AD38543 RQ/CR	Qual Device: CC26117268R/HAR	Qual Device: DV1185510 BCR	Qual Device: EDC-DC	Qual Device: E530F2680R/HT	Qual Device: TP4630M/DCR	Qual Device: TP465611W1/SAR	QES Package Reference: TP37A47112HGW/K01	QES Package Reference: TN8512Z/GERG01
AC	Autoclave 121C	96 Hours	3/2310	3/2310	3/2310	3/2310	-	3/2310	-	3/2310	3/2310	3/2310	3/2310	3/2310
BLR	Solder Level Reliability, Temp Cycle, -40/125C	1000 Cycles	-	-	-	-	-	-	-	1/320	-	-	1/320	-
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	-	-	-	-	-	-	-	-	-	-	3/900	-
ESD	Electrical Characterization	Per DataSheet Parameters	-	-	-	-	-	-	-	-	-	-	-	1/800
FLAM	Flammability (EC 455-2-2)	-	-	-	-	-	-	-	-	-	-	-	-	3/150
FLAM	Flammability (UL 94V-0)	-	-	-	-	-	-	-	-	-	-	-	-	3/150
FLAM	Flammability (UL-1654)	-	-	-	-	-	-	-	-	-	-	-	-	3/150
HAST	Biasd HAST, 130C/85%RH	96 Hours	-	3/2310	-	-	-	-	-	-	-	-	-	3/2310
HBM	ESD - HBM	1000 V	-	-	-	-	-	-	-	-	-	-	-	1/30
ICDM	ESD - ICDM	250 V	-	3/90	-	-	-	-	-	-	-	-	-	1/90
HTOL	Life Test, 125C	1000 Hours	-	-	-	-	-	-	-	-	-	-	-	3/310
HTOL	Life Test, 150C	800 Hours	-	-	-	-	-	-	-	-	-	-	-	1/770
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/2280	-	-	3/2310	-	-	-	-	-	3/2300	-
HTSL	High Temp. Storage Bake, 175C	420 Hours	-	-	3/2310	-	-	-	-	-	-	-	3/2300	-
LU	Latch-up (per JEDEC78)	-	-	-	-	-	-	-	-	-	-	-	-	1/120
PD	Physical Dimensions	-	3/150	3/150	3/150	3/150	3/150	3/150	-	3/150	3/150	3/150	3/150	3/300
PTC	Power Temperature Cycle, -40/125C	1000 Cycles	-	-	-	-	-	-	-	-	-	-	-	1/500
SD	Surface Mount Solderability	8 Hours Steam Age, Pb-Free	-	-	-	-	-	-	-	3/660	3/660	-	1/150	1/220
SD	Surface Mount Solderability	Pb	-	-	-	-	-	-	-	-	-	-	1/150	-
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	-	-	3/2300	-	-	-	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/2310	3/2310	3/2310	3/2310	-	3/2310	-	3/2310	3/2310	3/2250	3/2310	3/2310
THB	Biasd Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-	-	-	-	-	3/2190	-	-	-	-
UMAST	Unbiasd HAST, 130C/85%RH	264 Hours	-	-	-	-	3/2310	-	-	-	-	-	-	-
UMAST	Unbiasd HAST, 130C/85%RH	96 Hours	-	-	-	-	-	-	-	3/2310	-	-	-	-
VM	Visual / Mechanical (per mfg. Site specification)	3/9840	3/9840	3/9840	3/9840	3/9840	3/9840	3/9840	-	3/9840	3/9840	3/9840	3/9840	3/9840
WSP	Solder Pull	Wires	3/2280	3/2280	-	-	-	3/2280	-	3/2280	3/2280	3/2280	3/2280	3/2280
WBS	Bull Bond Shear	Wires	3/2280	3/2280	-	-	-	3/2280	-	3/2280	3/2280	3/2280	3/2280	3/2280

- Preconditioning was performed for Autoclave, Unbiasd HAST, THB/Biasd 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 JEDEC78: -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

TI Qualification ID: 20190420-117558

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

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