



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20230706000.1

Qualification of additional mold and mount compound for select devices

Change Notification / Sample Request

Date: July 06, 2023

To: TOKYO ELECTRON DEVICE (DSTR) 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.

Texas Instruments requires acknowledgement of receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

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 or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

Change Management Team
SC Business Services

20230706000.1
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
INA300AIDSQT	null
MSP430F2232IRHAT	null
TPS84210RKGT	null
TPS84410RKGR	null
TPS84410RKGT	null
TPS84620RUQT	null
LMZ30602RKGT	null
LMZ30604RKGT	null
LMZ31503RUQR	null
LMZ31503RUQT	null
TPS84620RUQR	null
MSP430G2744IRHA40R	null
TPS62140ARGTR	null
LMZ30604RKGR	null
LMZ31506RUQR	null
LMZ31506RUQT	null
TPS84621RUQT	null
LMZ31506HRUQT	null
TPS55330RTER	null
TPS84320RUQT	null
TPS84621RUQR	null
MSP430F2272IRHAR	null
MSP430F2252IRHAT	null
TPS51218DSCR	null
TPS54427DRCT	null
BQ24133RGYR	null
MSP430F2254TRHAR	null
MSP430F2001IRSAR	null
MSP430F2001IRSAT	null
MSP430F2001TRSAR	null
MSP430F2001TRSAT	null
MSP430F2011IRSAR	null
MSP430F2011IRSAT	null
MSP430F2011TRSAR	null
MSP430F2011TRSAT	null
INA3221AIRGVR	null
MSP430FR2533IRHBR	null
INA3221AIRGVT	null
MSP430G2231IRSA16R	null
MSP430G2744IRHA40T	null
TPS22968DPUR	null
TPS22976ADPUR	null

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

PCN Number:	20230706000.1		PCN Date:	July 06, 2023										
Title:	Qualification of additional mold and mount compound for select devices													
Customer Contact:	Change Management Team		Dept:	Quality Services										
Proposed 1st Ship Date:	Oct 4, 2023		Sample requests accepted until:	Aug 6, 2023										
*Sample requests received after Aug 6, 2023 will not be supported.														
Change Type:														
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Material									
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Process									
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Fab Site									
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Material									
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Process									
PCN Details														
Description of Change:														
<p>This PCN is to inform of an alternate mold and mount compound qualification for the devices listed below as follows:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>What</th> <th>Current</th> <th>New</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>						What	Current	New	Mount Compound	4207768	4207123	Mold Compound	4208625	4222198
What	Current	New												
Mount Compound	4207768	4207123												
Mold Compound	4208625	4222198												
Reason for Change:														
Continuity of supply														
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):														
None														
Impact on Environmental Ratings														
<p>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.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> </tr> </tbody> </table>						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	
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	SN54622RHLR
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	TPS54427DRCR
LMZ31506RUQR	MSP430F2252IRHAR	MSP430G2231IRSA16T	TPS54427DRCT
LMZ31506RUQR-P	MSP430F2252IRHAT	MSP430G2232IRSA16R	TPS54428DRCR
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: 724110/26/2018	Qual Device: 431F455308/C28	Qual Device: AD117208V/L8	Qual Device: AD1354318/C8	Qual Device: CC26117236R/H48	Qual Device: D611854018/C8	Qual Device: R6G-DC	Qual Device: R330F2820R/H41	Qual Device: TP430300R/C8	Qual Device: TP430311W/SAR	QES Package Reference: TP430311W/SAR	QES Package Reference: TN430311W/SAR
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	Board Level Reliability, Temp Cycle, -40/125C	1000 Cycles	-	-	-	-	-	1/320	-	3/2310	3/2310	3/2310	3/2310	3/2310
ED	Electrical Disturbance	Cpk>1.67 Room, Hot, & Cold	-	-	-	-	-	-	-	-	-	-	3/950	-
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-	-	-	-	-	-	-	-	1/800
FLAM	Flammability (IEC 606-2-3)	-	-	-	-	-	-	-	-	-	-	-	-	3/150
FLAM	Flammability (UL 94V-0)	-	-	-	-	-	-	-	-	-	-	-	-	3/150
FLAM	Flammability (UL-94V)	-	-	-	-	-	-	-	-	-	-	-	-	3/150
HAST	Bias-HAST - 130C/85%RH	96 Hours	-	3/2310	-	-	-	-	-	-	-	-	3/2310	3/2310
HBM	ESD - HBM	1000 V	-	-	-	-	-	-	-	-	-	-	1/30	-
CDM	ESD - CDM	250 V	-	3/90	-	-	-	-	-	-	-	-	1/30	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	-	-	-	-	-	-	-	3/2310	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-	-	-	-	-	-	-	-	1/770
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/2280	-	-	3/2310	-	-	3/2300	-	-	14/50	3/2310
HTSL	High Temp. Storage Bake, 175C	420 Hours	-	-	3/2310	-	-	-	-	-	-	3/2300	-	-
LU	Latch-up (per JEDEC78)	-	-	-	-	-	-	-	-	-	-	-	1/120	1/60
PD	Physical Dimensions	-	-	-	-	-	-	-	-	-	-	-	3/300	3/300
PTC	Power Temperature Cycle, -40/125C	1000 Cycles	3/150	3/150	3/150	3/150	3/150	3/150	-	3/150	3/150	3/150	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	720 Cycles	-	-	-	3/2300	-	-	-	-	-	-	-	-
TC	Temperature Cycle, -55/150C	500 Cycles	3/2310	3/2310	3/2310	3/2310	-	3/2310	-	3/2310	3/2310	3/2310	3/2310	3/2310
THB	Bias-HAST Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	-	-	-	-	-	3/2180	-	-	-	-
UNHAST	Unbiased HAST - 130C/85%RH	254 Hours	-	-	-	-	3/2310	-	-	-	-	-	-	-
UNHAST	Unbiased 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
WSP	Weld Pull	Wires	3/2280	3/2280	-	-	-	3/2280	-	3/2280	3/2280	3/2280	3/2280	3/2280
WDS	Ball Bond Shear	Wires	3/2280	3/2280	-	-	-	3/2280	-	3/2280	3/2280	3/2280	3/2280	3/2280

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Bias 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/720 Cycles and -55C/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: 20160420-117558

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

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