



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**PCN#20150922000
TPS630250RNCR/T Conversion to Green
Change Notification / Sample Request**

Date: 9/24/2015
To: MOUSER 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 proposed first ship date is indicated 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, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

20150922000
Attachment: 1

Products Affected:

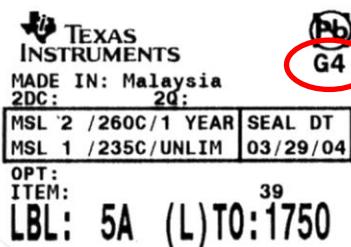
The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TPS630250RNCT	null

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

PCN Number:	20150922000			PCN Date:	09/24/2015									
Title:	TPS630250RNCR/T Conversion to Green													
Customer Contact:	PCN Manager	Dept:	Quality Services											
Proposed 1st Ship Date:	12/24/2015		Estimated Sample Availability:	Date provided at sample request										
Change Type:														
<input type="checkbox"/> Assembly Site	<input type="checkbox"/> Design	<input type="checkbox"/> Wafer Bump Site												
<input checked="" type="checkbox"/> Assembly Process	<input type="checkbox"/> Data Sheet	<input type="checkbox"/> Wafer Bump Material												
<input checked="" type="checkbox"/> Assembly Materials	<input type="checkbox"/> Part number change	<input checked="" type="checkbox"/> Wafer Bump Process												
<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Site	<input type="checkbox"/> Wafer Fab Site												
<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Process	<input type="checkbox"/> Wafer Fab Materials												
		<input type="checkbox"/> Wafer Fab Process												
PCN Details														
Description of Change:														
Texas Instruments is pleased to announce the conversion to green status for the TPS630250RNCR/T device. A change from lead based (SnPb) solder paste to lead free (Pb free) solder paste for the assembly process will be internal to the package and will not affect customer usage.														
<table border="1"> <thead> <tr> <th></th> <th>Die Pillar Solder Paste</th> <th>ECAT</th> </tr> </thead> <tbody> <tr> <td>Current</td> <td>Lead (SnPb) base</td> <td>e4</td> </tr> <tr> <td>New</td> <td>Sn (Pb free) base</td> <td>G4</td> </tr> </tbody> </table>							Die Pillar Solder Paste	ECAT	Current	Lead (SnPb) base	e4	New	Sn (Pb free) base	G4
	Die Pillar Solder Paste	ECAT												
Current	Lead (SnPb) base	e4												
New	Sn (Pb free) base	G4												
Reason for Change:														
Migration to Green status														
Anticipated impact on Form, Fit, 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:														
<table border="1"> <thead> <tr> <th colspan="2"></th> <th>Device Symbolization</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Current</td> <td> <pre> +-----+ TI = TI LETTERS !O ! YM = YEAR MONTH DATE CODE ! 630250 ! S = ASSEMBLY SITE CODE ! TI YMS ! LLLL = ASSY LOT CODE ! LLLL ! +-----+ O - PIN 1 (MARKED) </pre> </td> </tr> <tr> <td colspan="2" style="text-align: center;">New</td> <td> <pre> +-----+ TI = TI LETTERS !O ! YM = YEAR MONTH DATE CODE ! 63025P ! S = ASSEMBLY SITE CODE ! TI YMS ! LLLL = ASSY LOT CODE ! LLLL ! +-----+ O - PIN 1 (MARKED) </pre> </td> </tr> </tbody> </table>								Device Symbolization	Current		<pre> +-----+ TI = TI LETTERS !O ! YM = YEAR MONTH DATE CODE ! 630250 ! S = ASSEMBLY SITE CODE ! TI YMS ! LLLL = ASSY LOT CODE ! LLLL ! +-----+ O - PIN 1 (MARKED) </pre>	New		<pre> +-----+ TI = TI LETTERS !O ! YM = YEAR MONTH DATE CODE ! 63025P ! S = ASSEMBLY SITE CODE ! TI YMS ! LLLL = ASSY LOT CODE ! LLLL ! +-----+ O - PIN 1 (MARKED) </pre>
		Device Symbolization												
Current		<pre> +-----+ TI = TI LETTERS !O ! YM = YEAR MONTH DATE CODE ! 630250 ! S = ASSEMBLY SITE CODE ! TI YMS ! LLLL = ASSY LOT CODE ! LLLL ! +-----+ O - PIN 1 (MARKED) </pre>												
New		<pre> +-----+ TI = TI LETTERS !O ! YM = YEAR MONTH DATE CODE ! 63025P ! S = ASSEMBLY SITE CODE ! TI YMS ! LLLL = ASSY LOT CODE ! LLLL ! +-----+ O - PIN 1 (MARKED) </pre>												
NOTE: The datasheet will be updated to reflect this new device name for the G4 devices.														

TI Label, ECAT Information:



(1P) SN74LS07NSR
(Q) 2000 (D) 0336
(31T) LOT: 3959047MLA
(4W) TKY(1T) 7523483SI2
(P)
(2P) REV: (V) 0033317
(20L) CS0: SHE (21L) CCO:USA
(22L) AS0:MLA (23L) AC0: MYS

Before Change: e4

After Change: G4

Product Affected:

TPS630250RNCR	TPS630250RNCT
---------------	---------------



TI Information
Selective Disclosure

Qualification Report

TPS630250PRNC (LBC7/HotRod with Pb free Solder)

Approve Date 25-Aug-2015

Product Attributes

Die Attributes	Qual Device: TPS630250PRNC	QBS Process Reference: TPS65830YFF	QBS Package Reference: TPS22993RLWR	QBS Package Reference: TPS62085RLT
Die Revision	A3	PG1.2	A	PG1.2/B1
Wafer Fab Supplier	RFAB	RFAB	RFAB	MIH08
Wafer Process	LBC7	LBC7	LBC7	LBC7
Package Attributes	Qual Device: TPS630250PRNC	QBS Process Reference: TPS65830YFF	QBS Package Reference: TPS22993RLWR	QBS Package Reference: TPS62085RLT
Assembly Site	TI-CLARK	TI-CLARK	TI-CLARK	TI-CLARK
Package Family	QFN	WCSP	QFN	QFN
Package Designator	RNC	YFF	RLW	RLT
Package Size (mils)	98.4 X 98.4	118.11 X 118.11	118.11 X 118.11	78.74 X 78.74
Body Thickness (mils)	35.4	24.61	29.53	39.37
Pin Count	14	49	20	7
Lead Frame Type	Cu	Cu	Cu	Cu
Lead Finish	NiPdAu	-	NiPdAu	NiPdAu
Lead Pitch(mils)	19.68	15.75	15.75	19.68
Bump Composition	-	SnAgCu	-	-
Flammability Rating	UL 94 V-0	UL 94 V-0	-	UL 94 V-0

- QBS: Qual By Similarity

- Qual Device TPS630250PRNC is qualified at LEVEL1-260C

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TPS630250PRNC	QBS Process Reference: TPS65830YFF	QBS Package Reference: TPS22993RLWR	QBS Package Reference: TPS62085RLT
AC	Autoclave 121C	96 Hours	-	-	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	-	Pass	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	3/231/0
HBM	ESD - HBM	4000 V	1/3/0	-	-	-
CDM	ESD - CDM	1500 V	1/3/0	-	-	3/9/0
HTOL	Life Test, 125C	1000 Hours	-	-	1/77/0	-
HTOL	Life Test, 150C	300 Hours	-	3/231/0	-	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	3/231/0	-	-	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	-
LU	Latch-up	(per JESD78)	3/18/0	3/18/0	-	-
PD	Physical Dimensions	--	3/15/0	-	3/15/0	3/15/0
SD	Solderability	8 Hours Steam Age	-	-	-	3/66/0
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	3/229/0	3/231/0	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	3/228/0	-	3/231/0

- 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

□

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	PCNAAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com