



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20170310000

**Qualification of an improved material set for select devices in the PDIP package
Change Notification / Sample Request**

Date: March 31, 2017
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 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 Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

20170310000
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
74AC11008N	null
74AC11032N	null
74AC11074N	null
74AC11257N	null
74ACT11030N	null
74ACT11074N	null
AM26C31CN	null
AM26C31IN	null
AM26C32CN	null
AM26C32IN	null
AM26C32INE4	null
AM26LS31CN	null
AM26LS31CNE4	null
AM26LS32ACN	null
AM26LS32AIN	null
AM26LS33ACN	null
AM26S10CNE4	null
BQ2000PN-B5	null
BQ2000TPN-B5	null
BQ2002CPNE4	null
BQ2002FPN	null
BQ2002GPN	null
BQ2002PN	null
BQ2002PNE4	null
BQ2003PN	null
BQ2003PN-N	null
BQ2031PN-A5	null
BQ2031PN-A5E4	null
BQ2054PN	null
BQ2054PNE4	null
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PCF8574ANE4	null
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TLC542IN	null
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TLC551CP	null
TLC551CPE4	null
TLC552CN	null
TLC555CP	null
TLC555IP	null
TLC556CN	null
TLC556IN	null
TLC5615CP	null
TLC5620CN	null
TLC5620IN	null
TLC5628CN	null
TLC5628IN	null
TLC5916IN	null
TLC5916INE4	null
TLC59210IN	null
TLC59211IN	null
TLC59213IN	null
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TLC7628CN	null
TLC7701IP	null
TLC7701QP	null
TLC7705IP	null
TLC7705IPE4	null
TLC7725IP	null
TLC7733IPE4	null
TLC7733QPE4	null
TLE2021AIP	null
TLE2021CP	null
TLE2022ACP	null
TLE2022AIP	null
TLE2022IP	null
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TLE2061IP	null
TLE2062CP	null
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TLE2064IN	null
TLE2071CP	null
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TLE2071IP	null
TLE2072AIP	null
TLE2072CP	null
TLE2074AIN	null
TLE2074AINE4	null
TLE2074CN	null
TLE2074CNE4	null
TLE2074IN	null
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TLE2081CP	null
TLE2081IP	null
TLE2082ACP	null
TLE2082ACPE4	null
TLE2082AIP	null
TLE2082CP	null
TLE2082IP	null
TLE2084ACN	null
TLE2084CN	null
TLE2084CNE4	null
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TLE2301INEE4	null
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TLV0832CP	null
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TLV0838CN	null
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TLV2241IPE4	null
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TLV2262AIP	null
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TLV2342IP	null
TLV2344IN	null
TLV2354IN	null
TLV2362IP	null
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TLV2401IP	null
TLV2402IP	null
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TLV2451AIP	null
TLV2451IP	null
TLV2452AIP	null
TLV2452IP	null
TLV2454AIN	null

TLV2454CN	null
TLV2454IN	null
TLV2455AIN	null
TLV2460AIP	null
TLV2460IP	null
TLV2461AIP	null
TLV2461CP	null
TLV2461CPE4	null
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TLV2462IP	null
TLV2462IPE4	null
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TLV2464CNE4	null
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TLV2470CP	null
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TPA1517NE	null
TPA3122D2N	null
TPA3125D2N	null
TPA6021A4N	null
TPS2021P	null
TPS2023P	null
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TPS2030P	null
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TPS2046P	null
TPS2811P	null
TPS2812P	null
TPS2814P	null
TPS2814PE4	null
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TPS3510P	null
TPS3513N	null
TPS6735IP	null
TPS6735IPE4	null
TPS6755IP	null
TPS6755IPE4	null
TPS7101QP	null
TPS7133QP	null
TPS7148QP	null
TPS7150QP	null
TPS7201QP	null
TPS7233QP	null
TPS7233QPE4	null
TPS7248QP	null
TPS7250QP	null
TPS7301QP	null
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TRS202EIN	null
TRS232EIN	null
TRS232IN	null
TRS232N	null
TS12A4514P	null
TS12A4515P	null
TS12A4515PE4	null
UA723CN	null
UA733CN	null
UA741CP	null
UA741CPE4	null
UA747CN	null
UA747CNE4	null
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UA9638CP	null
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UCC27321P	null
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UCC27324PE4	null
UCC27423P	null
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UCC27424PE4	null
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UCC28513N	null
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UCC29002P	null
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UCC37321PE4	null
UCC37322P	null
UCC37323P	null
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UCC37324P	null
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UCC38050P	null
UCC39002P	null
ULN2002AN	null
ULN2002ANE4	null
ULN2003AIN	null
ULN2003AINE4	null
ULN2003AN	null
ULN2004AIN	null
ULN2004AN	null
ULN2004ANE4	null

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

PCN Number:	20170310000	PCN Date:	March 31 2017												
Title:	Qualification of an improved material set for select devices in the PDIP package														
Customer Contact:	PCN Manager	Dept:	Quality Services												
Proposed 1st Ship Date:	July 1 2017	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 a new material set for the devices listed in pg 2 of this notification as follows:															
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">Current</th> <th style="text-align: center;">New</th> </tr> </thead> <tbody> <tr> <td>Mount Compound</td> <td style="text-align: center;">4042500</td> <td style="text-align: center;">4147858</td> </tr> <tr> <td>Mold Compound</td> <td style="text-align: center;">4042503</td> <td style="text-align: center;">4211880</td> </tr> <tr> <td>Leadframe Finish</td> <td style="text-align: center;">NiPdAu</td> <td style="text-align: center;">NiPdAu (Roughened)</td> </tr> </tbody> </table>					Current	New	Mount Compound	4042500	4147858	Mold Compound	4042503	4211880	Leadframe Finish	NiPdAu	NiPdAu (Roughened)
	Current	New													
Mount Compound	4042500	4147858													
Mold Compound	4042503	4211880													
Leadframe Finish	NiPdAu	NiPdAu (Roughened)													
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

UniBOM PDIP for TI Malaysia and TI Mexico

Product Attributes

Attributes	Qual Device: L293DNE	Qual Device: LT1013CP	Qual Device: MSP430F2013IN	Qual Device: NE5532P	Qual Device: SN74HC595N	Qual Device: SN74HCT540N	Qual Device: SN74LS03N
Assembly Site	FMX	FMX	MLA	FMX	MLA	MLA	MLA
Package Family	PDIP	PDIP	PDIP	PDIP	PDIP	PDIP	PDIP
Flammability Rating	UL 94 V-0	UL 94 V0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	SFAB	SFAB	TSMC-10	SFAB	SFAB	SFAB	SFAB
Wafer Fab Process	J11	J11	TSMC EMB FLASH	J11	74HC	74HC-NONEPI	J11

Product Attributes

Attributes	Qual Device: TLC339IN	Qual Device: TPA3122D2N	Qual Device: TPS2041P	Qual Device: TS12A4514P	Qual Device: UCC37322P
Assembly Site	FMX	MLA	FMX	FMX	FMX
Package Family	PDIP	PDIP	PDIP	PDIP	PDIP
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	DFAB	UMC FAB8AB	DFAB	DFAB	DFAB
Wafer Fab Process	LINCMOS_5/5	LBC5X	LBC3S	LBC3S	LBC3S

- Qual Devices SN74LS03N, TPA3122D2N, L293DNE, LT1013CP, TLC339IN, UCC37322P, NE5532P, SN74HCT540N, SN74HC595N, TPS2041P, TS12A4514P, MSP430F2013IN are qualified at Not Classified Moisture Sensitivity Level

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: L293DNE	Qual Device: LT1013CP	Qual Device: MSP430F2013IN	Qual Device: NE5532P	Qual Device: SN74HC595N	Qual Device: SN74HCT540N	Qual Device: SN74LS03N
AC	Autoclave 121C	96 Hours	3/231/0	-	3/231/0	-	3/225/0	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-	Pass	-	-
FLAM	Flammability (UL 94V-0)	-	-	-	-	-	-	3/15/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	3/231/0	-	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	-	3/231/0	-	3/231/0	3/231/0	3/231/0
LI	Lead Fatigue	Leads	3/66/0	-	3/45/0	3/66/0	3/45/0	3/45/0	3/45/0
LI	Lead Pull to Destruction	Leads	3/144/0	-	3/126/0	3/72/0	3/144/0	3/180/0	3/126/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass	Pass	Pass
PKG	Lead Finish Adhesion	Leads	3/45/0	-	3/45/0	3/45/0	3/45/0	2/30/0	3/45/0
SD	Solderability	8 Hours Steam Age	3/66/0	-	3/66/0	3/66/0	3/66/0	3/66/0	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	Results April 15 2017	3/231/0	3/231/0	-	3/231/0	3/231/0	3/231/0

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TLC339IN	Qual Device: TPA3122D2N	Qual Device: TPS2041P	Qual Device: TS12A4514P	Qual Device: UCC37322P
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	-	1/77/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-	-
FLAM	Flammability (UL 94V-0)	-	-	-	-	-	3/15/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0	-	1/77/0	3/231/0
LI	Lead Fatigue	Leads	3/45/0	3/45/0	-	-	3/45/0
LI	Lead Pull to Destruction	Leads	3/126/0	3/180/0	-	-	3/70/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass
PKG	Lead Finish Adhesion	Leads	3/45/0	3/45/0	-	-	3/45/0
SD	Solderability	8 Hours Steam Age	3/66/0	3/66/0	-	-	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	1/77/0	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 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:

Qualified Pb-Free (through hole) and Green

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