



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:** PREMIER FARNELL 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](mailto: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.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
AM26C31CN	null
AM26C32CN	null
AM26C32IN	null
AM26LS31CN	null
AM26LS32ACN	null
AM26LS33ACN	null
CD14538BE	null
CD4001BE	null
CD4001UBE	null
CD4002BE	null
CD4007UBE	null
CD40102BE	null
CD40103BE	null
CD40106BE	null
CD40109BE	null
CD4011BE	null
CD4011UBE	null
CD4012BE	null
CD4013BE	null
CD4015BE	null
CD4016BE	null
CD40174BE	null
CD4017BE	null
CD4018BE	null
CD40192BE	null
CD4020BE	null
CD4021BE	null
CD4022BE	null
CD4023BE	null
CD4024BE	null
CD4025BE	null
CD4026BE	null
CD4027BE	null
CD4028BE	null
CD4029BE	null
CD4030BE	null
CD4040BE	null
CD4041UBE	null
CD4042BE	null
CD4043BE	null
CD4044BE	null
CD4046BE	null
CD4047BE	null
CD4048BE	null
CD4049UBE	null
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CD4052BE	null
CD4053BE	null
CD4060BE	null
CD4063BE	null
CD4066BE	null
CD4068BE	null
CD4069UBE	null
CD4070BE	null
CD4071BE	null

CD4072BE	null
CD4073BE	null
CD4075BE	null
CD4076BE	null
CD4078BE	null
CD4082BE	null
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CD4520BE	null
CD4541BE	null
CD4543BE	null
CD4556BE	null
CD4572UBE	null
CD74AC04E	null
CD74AC14E	null
CD74AC541E	null
CD74ACT245E	null
CD74ACT273E	null
CD74ACT573E	null
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INA116PA	null
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LF347N	null
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LF412CP	null
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LM358P	null
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LM393P	null
LP324N	null
LP339N	null
LT1013CP	null
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LT1013DP	null
LT1014CN	null
LT1014DN	null
LT1054CP	null
LT1054IP	null
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MAX232IN	null
MAX232N	null
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MC1489N	null
MC33063AP	null
MC3403N	null
MC34063AP	null
MC3486N	null
MC3487N	null
MPC508AP	null
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NE555P	null
NE556N	null
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OP07DP	null
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P82B96P	null
PCF8574AN	null
PCF8574N	null
RC4136N	null
RC4558IP	null
RC4558P	null
SA555P	null
SG3524N	null
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SN75LBC184P	null
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TL071CP	null
TL072ACP	null
TL072CP	null
TL072IP	null
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TL074BCN	null
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TL074IN	null
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TL081CP	null
TL082ACP	null
TL082ACPE4	null
TL082BCP	null
TL082CP	null
TL082IP	null
TL084ACN	null
TL084BCN	null
TL084CN	null
TL084IN	null
TL3695P	null
TL3842P	null
TL431ACP	null
TL431IP	null
TL494CN	null
TL494IN	null
TL499ACP	null
TL712CP	null
TL714CP	null
TL7700CP	null
TL7705ACP	null
TL7709ACP	null
TL7712ACP	null
TL7726CP	null
TLC0832IPE4	null
TLC0834IN	null
TLC1543CN	null
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TLC272CP	null
TLC272CPE4	null
TLC272IP	null
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TLC27M4AIN	null
TLC352CP	null
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TLC372CP	null
TLC374CN	null
TLC393IP	null
TLC551CP	null
TLC555CP	null
TLC555IP	null
TLC556CN	null
TLC556IN	null
TLC5615CP	null
TLC5620CN	null

TLC5916IN	null
TLC7226CN	null
TLC7528CN	null
TLE2022CP	null
TLE2062CP	null
TLE2064CN	null
TLE2071CP	null
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TLE2142CP	null
TLE2144CN	null
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TLV2254IN	null
TLV2264IN	null
TLV2371IP	null
TLV2474IN	null
TLV2774AIN	null
TLV5618ACP	null
TPA3125D2N	null
UA723CN	null
UA741CP	null
UA747CN	null
UA9637ACP	null
UA9638CP	null
UC3846N	null
UCC27424P	null
UCC37322P	null
UCC38050P	null
ULN2002AN	null
ULN2003AIN	null
ULN2003AN	null
ULN2003ANE4	null
ULN2004AN	null
SN74ALS259N	null

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

<b>PCN Number:</b>	20170310000	<b>PCN Date:</b>	March 31 2017												
<b>Title:</b>	Qualification of an improved material set for select devices in the PDIP package														
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services												
<b>Proposed 1<sup>st</sup> Ship Date:</b>	July 1 2017	<b>Estimated Sample Availability:</b>	Provided upon Request												
<b>Change Type:</b>															
<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												
<b>PCN Details</b>															
<b>Description of Change:</b>															
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><b>Mount Compound</b></td> <td style="text-align: center;">4042500</td> <td style="text-align: center;"><b>4147858</b></td> </tr> <tr> <td><b>Mold Compound</b></td> <td style="text-align: center;">4042503</td> <td style="text-align: center;"><b>4211880</b></td> </tr> <tr> <td><b>Leadframe Finish</b></td> <td style="text-align: center;">NiPdAu</td> <td style="text-align: center;"><b>NiPdAu (Roughened)</b></td> </tr> </tbody> </table>					Current	New	<b>Mount Compound</b>	4042500	<b>4147858</b>	<b>Mold Compound</b>	4042503	<b>4211880</b>	<b>Leadframe Finish</b>	NiPdAu	<b>NiPdAu (Roughened)</b>
	Current	New													
<b>Mount Compound</b>	4042500	<b>4147858</b>													
<b>Mold Compound</b>	4042503	<b>4211880</b>													
<b>Leadframe Finish</b>	NiPdAu	<b>NiPdAu (Roughened)</b>													
<b>Reason for Change:</b>															
Continuity of Supply															
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>															
None															
<b>Anticipated impact on Material Declaration</b>															
<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 <a href="#">TI ECO website</a> .												
<b>Changes to product identification resulting from this PCN:</b>															
Not Applicable															
<b>Product Affected</b>															
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.

<b>Location</b>	<b>E-Mail</b>
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>