



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20190418000.1
Qualify TI Mexico as an additional Assembly site
for select PDIP devices
Change Notification / Sample Request

Date: April 25, 2019
To: Newark/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 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 Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact the TI Samples Team at pcn_sr_team@list.ti.com.

Sincerely,

PCN Team
SC Business Services

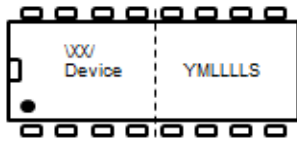
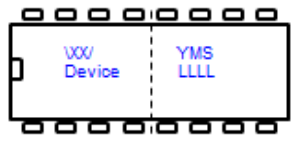
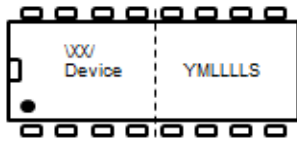
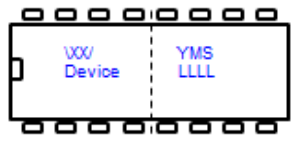
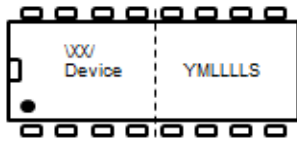
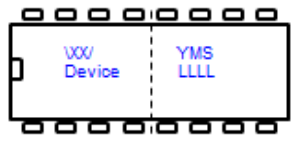
20190418000.1
Change Notification / Sample Request
Attachments

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
INA117P	null
OPA2134PA	null
OPA2227PA	null
OPA241PA	null
OPA404KPG4	null
OPA4277PA	null
DAC7611P	null
INA103KP	null
INA106KP	null
INA110KP	null
INA111AP	null
INA111BP	null
INA114AP	null
INA114BP	null
INA116PA	null
INA118P	null
INA118PB	null
INA122P	null
INA122PA	null
INA128P	null
INA128PA	null
INA129P	null
INA131AP	null
INA131BP	null
OPA2132PA	null
OPA2227P	null
OPA2241PA	null
OPA2251PA	null
OPA2277P	null
OPA2277PA	null
OPA227P	null
OPA227PA	null
OPA228PA	null
OPA277P	null
OPA277PA	null
OPA27GP	null
OPA37GP	null
OPA404KP	null
OPA4131PA	null
OPA4227PA	null
OPA4228PA	null
PGA204AP	null
PGA204BP	null
PGA205AP	null
RCV420JP	null
RCV420KP	null
XTR106P	null
XTR106PA	null
INA129PA	null
VFC110AP	null
PGA206PA	null

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

PCN Number:	20190418000.1		PCN Date:	Apr 25 2019												
Title:	Qualify TI Mexico as an additional Assembly site for select PDIP devices															
Customer Contact:	PCN Manager	Dept:	Quality Services													
Proposed 1st Ship Date:	July 25 2019	Estimated Sample Availability:	Date provided at sample request													
Change Type:																
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site											
<input 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 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 qualification of TI Mexico as an alternate assembly site for select devices in the PDIP package. Construction difference between the current and proposed site is shown below:																
<table border="1"> <thead> <tr> <th>8 Pin</th> <th>Carsem</th> <th>TI Mexico</th> </tr> </thead> <tbody> <tr> <td>Mold Compound</td> <td>6491309</td> <td>4211880</td> </tr> <tr> <td>Mount Compound</td> <td>6491316</td> <td>4147858</td> </tr> <tr> <td>Lead prep</td> <td>standard</td> <td>roughened</td> </tr> </tbody> </table>					8 Pin	Carsem	TI Mexico	Mold Compound	6491309	4211880	Mount Compound	6491316	4147858	Lead prep	standard	roughened
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Additionally, a some of the TI Mexico devices will undergo a symbolization format change as follows:																
<table border="1"> <thead> <tr> <th></th> <th>Carsem</th> <th>TI Mexico</th> </tr> </thead> <tbody> <tr> <td>Group 1 Devices</td> <td>No Change</td> <td>No Change</td> </tr> <tr> <td>Group 2 Devices</td> <td>  </td> <td>  </td> </tr> </tbody> </table>						Carsem	TI Mexico	Group 1 Devices	No Change	No Change	Group 2 Devices					
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Group 1 Devices	No Change	No Change														
Group 2 Devices																
Reason for Change:																
Continuity of Supply																
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 at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp
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Changes to product identification resulting from this PCN:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (21L)	Assembly City
Carsem	CRS	MYS	Jelapang
TI Mexico	MEX	MEX	Aguascalientes

Sample product shipping label (not actual product label)

TEXAS INSTRUMENTS
 MADE IN: Malaysia
 2DC: 20
 MSL 2 /260C/1 YEAR SEAL DT
 MSL 1 /235C/UNLIM 03/29/04
 OPT:
 ITEM: 39
LBL: 5A (L)TO:1750

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

**Product Affected:
Group 1 devices:**

ADS7812PB	INA122P	OPA2228PA	OPA277PA
DAC7611P	INA122PA	OPA2228P	OPA27GP
DAC7611PB	INA122PA	OPA2241PA	OPA37GP
DAC7611PB	INA128P	OPA2241PA	OPA37GP
INA103KP	INA128PA	OPA2251PA	OPA404KP
INA103KP	INA128P	OPA2251PA	OPA404KP
INA106KP	INA129P	OPA2277P	OPA4131PA
INA110KP	INA129PA	OPA2277PA	OPA4131PA
INA111AP	INA129P	OPA2277PA	OPA4131PJ
INA111AP	INA131AP	OPA227P	OPA4227PA
INA111BP	INA131BP	OPA227PA	OPA4227PA
INA114AP	INA131BP	OPA227PA	OPA4228PA
INA114AP	OPA2132P	OPA227P	OPA4228PA
INA114BP	OPA2132PA	OPA228P	OPA4241PA
INA114BP	OPA2132PA	OPA228PA	OPA4277PA
INA116PA	OPA2134PA	OPA228PA	PGA206PA
INA116PA	OPA2134PA	OPA241PA	UC3842N
INA117P	OPA2227P	OPA241PA	VFC110AP
INA117P	OPA2227PA	OPA277P	XTR106P
INA118P	OPA2228P	OPA277PA	XTR106PA

INA118PB	OPA2228PA		
Group 2 devices:			
PGA204AP	PGA205AP	RCV420JP	RCV420KP
PGA204BP	PGA205BP	RCV420JPG4	RCV420KPG4
PGA204BPG4			



TI Information
Selective Disclosure

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

Type	Test Name / Condition	Duration	Qual Device: ADS7812PB	Qual Device: OPA2277P	Qual Device: OPA4277PA	QBS Package Reference: ADS831	QBS Package Reference: UCC37322P
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	1/77/0	-	-
FLAM	Flammability	UL 94V-0	-	-	-	1/5/0	3/15/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	3/230/0	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0	1/77/0	-	-
LI	Lead Fatigue	Leads	3/66/0	3/66/0	1/24/0	-	-
LI	Lead Pull to Destruction	Leads	3/144/0	3/72/0	1/42/0	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	-	-
PKG	Lead Finish Adhesion	Leads	3/45/0	2/30/0	1/15/0	-	-
PKG	Solder Heat	Leads	3/66/0	3/66/0	1/22/0	-	-
TC	Temperature Cycle, -40/125C	850 Cycles	2/154/0	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0	3/231/0	-	-

- QBS: Qual By Similarity
- Qual Devices ADS7812PB, OPA2277P, OPA4277PA are qualified as MSL Not Classified
- 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

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

For questions regarding this notice, e-mails can be sent to the 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
WW PCN Team	PCN_ww_admin_team@list.ti.com