



PCN# 20130122002

**Qualification of Nantong Fujitsu as additional assembly and test site for the family of
TLV1117LV devices in the SOT package
Change Notification / Sample Request**

Date: 1/24/2013
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
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20130122002
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
TLV1117LV12DCYR	null
TLV1117LV12DCYT	null
TLV1117LV18DCYR	null

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

PCN Number:	20130122002		PCN Date:	01/24/2013									
Title:	Qualification of Nantong Fujitsu as additional assembly and test site for the family of TLV1117LV devices in the SOT package.												
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037										
Proposed 1st Ship Date:	04/24/2013	Estimated Sample Availability:	02/02/2013										
Change Type:													
<input checked="" type="checkbox"/> Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials									
<input type="checkbox"/> Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification									
<input checked="" type="checkbox"/> Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process									
<input type="checkbox"/> Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process									
<input type="checkbox"/> Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process									
PCN Details													
Description of Change:													
Qualification of Nantong Fujitsu as an additional assembly/test site for the family of TLV1117LV devices in the SOT package. The material set for each site is as follows:													
Mold Compound	HANA A/T 450179		NFME A/T R-17										
Mount Compound	A-09		A-09										
Bond Wire	1.0 Mil Dia., Au		1.0 Mil Dia., Au										
Reason for Change:													
Continuity of Supply													
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):													
None													
Changes to product identification resulting from this PCN:													
<table border="1"> <tr> <td colspan="3">Assembly Site</td> </tr> <tr> <td>Hana Thailand</td> <td>Assembly Site Origin (22L)</td> <td>ASO: HNT</td> </tr> <tr> <td>Nantong Fujitsu</td> <td>Assembly Site Origin (22L)</td> <td>ASO: NFME</td> </tr> </table>					Assembly Site			Hana Thailand	Assembly Site Origin (22L)	ASO: HNT	Nantong Fujitsu	Assembly Site Origin (22L)	ASO: NFME
Assembly Site													
Hana Thailand	Assembly Site Origin (22L)	ASO: HNT											
Nantong Fujitsu	Assembly Site Origin (22L)	ASO: NFME											
Sample product shipping label (not actual product label)													
<p>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)T0:1750</p>	<p>(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</p>												
Topside Device marking:													
Assembly site code for Hana Thailand = H													
Assembly site code for Nantong Fujitsu = E													

Product Affected:			
TLV1117LV12DCYR	TLV1117LV12DCYT	TLV1117LV18DCYR	TLV1117LV18DCYT

Qualification Plan

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	Start:	January 2013	End:	February 2013
Qualification Device: TLV1117LV18DCY (MSL 1-260C)				
Package Construction Details				
Assembly Site:	NFME A/T	Mold Compound:	R-17	
# Pins-Designator, Family:	4-DCY, SOT	Mount Compound:	A-09	
Lead Finish:	MATTE TIN	Bond Wire:	1.0 Mil Dia., Au	
Qualification:	<input checked="" type="checkbox"/> Plan	<input type="checkbox"/> Test Results		
Reliability Test	Conditions		Sample Size / Fail	
Manufacturability (Assembly)	(per mfg. Site specification)		1 lot	
Manufacturability (Test)	(per mfg. Site specification)		1 lot	
Notes: **Tests require preconditioning sequence: MSL1-260C				

Reference Qualification Data: Approved January 2007

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.					
Qualification Device: LM317DCY (MSL 2-260C)					
Package Construction Details					
Assembly Site:	NFME A/T	Mold Compound:	R-17		
# Pins-Designator, Family:	4-DCY, SOT	Mount Compound:	A-09		
Lead Finish:	MATTE TIN	Bond Wire:	1.0 Mil Dia., Au		
Qualification:	<input type="checkbox"/> Plan	<input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions		Sample Size / Fail		
			Lot 1	Lot 2	Lot 3
**Steady-state Life Test	150C (168, 300 Hrs)		40/0	40/0	40/0
**High Temp. Storage Bake	150C (500, 1000 Hrs)		77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)		26/0	26/0	26/0
**Autoclave 121C	121C, 2 atm (96 Hrs)		77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500, 1000 Cyc)		77/0	77/0	77/0
Solderability	Steam age, 8 hours		pass	pass	pass
Lead Pull	# of leads to destruction, min. 3 units		pass	pass	pass
Lead Finish Adhesion	# of leads, min. 3 units		pass	pass	pass
Physical Dimensions	(per mechanical drawing)		pass	pass	pass
Die Shear	(per mfg. Site specification)		pass	pass	pass
Manufacturability (Assembly)	(per mfg. Site specification)		pass	pass	pass
Salt Atmosphere	24 Hrs		22/0	22/0	22/0
X-ray	(top side only)		pass	pass	pass
Moisture Sensitivity	(level 2 @ 260C peak +0/-5C)		pass	pass	pass
Notes: **Tests require preconditioning sequence: MSL3-260C					

Reference Qualification Data: Approved April 2012

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TLV1117LV07DCY (MSL1-260C)

Package Construction Details

Assembly Site:	HNT A/T	Mold Compound:	450179
# Pins-Designator, Family:	4-DCY, SOT	Mount Compound:	A-09
Lead Finish:	MATTE TIN	Bond Wire:	1.0 Mil Dia., Au
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions		Sample Size / Fail
Electrical Characterization	Per PDS range		Pass
ESD HBM	500V, 1000V, 1500V, 2000V		3/0
Latch-up	(per JESD78)		6/0
Notes: **Tests require preconditioning sequence: MSL1-260C			

Reference Qualification Data: Approved April 2012

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TLV1117LV33DCY (MSL1-260C)

Package Construction Details

Assembly Site:	NFME A/T	Mold Compound:	R-17
# Pins-Designator, Family:	4-DCY, SOT	Mount Compound:	A-09
Lead Finish:	MATTE TIN	Bond Wire:	1.0 Mil Dia., Au
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions		Sample Size / Fail
**Unbiased HAST	130C/85%RH/33.3 psia (96 Hrs)		80/0
**T/C -65C/150C	-65C/+150C (500Cyc)		80/0
ESD CDM	500V		3/0
Manufacturability (Assembly)	(per mfg. Site specification)		Pass
Manufacturability (Test)	(per mfg. Site specification)		Pass
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)		Pass
Notes: **Tests require preconditioning sequence: MSL1-260C			

Reference Qualification Data: Approved May 2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TLV1117LV33DCY (MSL1-260C)

Package Construction Details

Assembly Site:	HNT A/T	Mold Compound:	450179
# Pins-Designator, Family:	4-DCY, SOT	Mount Compound:	A-09
Lead Finish:	MATTE TIN	Bond Wire:	1.0 Mil Dia., Au
Qualification:	<input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results		
Reliability Test	Conditions		Sample Size / Fail
Electrical Characterization	Per PDS range		Pass
Notes: **Tests require preconditioning sequence: MSL1-260C			

Reference Qualification Data: Approved May 2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TLV1117LV45DCY (MSL1-260C)

Package Construction Details

Assembly Site:	HNT A/T	Mold Compound:	450179
# Pins-Designator, Family:	4-DCY, SOT	Mount Compound:	A-09
Lead Finish:	MATTE TIN	Bond Wire:	1.0 Mil Dia., Au
Qualification:	<input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results		
Reliability Test	Conditions		Sample Size / Fail
Electrical Characterization	Per PDS range		Pass
Notes: **Tests require preconditioning sequence: MSL1-260C			

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