

**PCN Number:** 20140922000 **PCN Date:** 09/24/2014

**Title:** Qualification of PTI as an alternate Assembly/Test site for the Sipario Family of Devices

**Customer Contact:** [PCN Manager](#) **Phone:** +1(214)480-6037 **Dept:** Quality Services

**Proposed 1<sup>st</sup> Ship Date:** 12/24/2014 **Estimated Sample Availability:** Date provided upon request

**Change Type:**

<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input 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
		<input type="checkbox"/>	Part number change		

**PCN Details**

**Description of Change:**

Texas Instruments is pleased to announce the qualification of Powertech Technology (PTI) as an alternate Assembly and test site for the family of Sipario devices listed below. The material set will be the same between the 2 sites.

Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.

**Reason for Change:**

Continuity of Supply


**Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):**

None

**Changes to product identification resulting from this PCN:**

Assembly Site		
TI Malaysia	Assembly Site Origin (22L)	ASO: MLA
<b>Powertech Technology (PTI)</b>	<b>Assembly Site Origin (22L)</b>	<b>ASO: PT2</b>


Sample product shipping label (not actual product label)



MADE IN: Malaysia  
2DC: 2Q:

MSL 2 /260C/1 YEAR	SEAL DT
MSL 1 /235C/UNLIM	03/29/04

OPT: 39  
ITEM: LBL: 5A (L)T0:1750



(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) ASO: MLA (23L) ACO: MYS

**Topside Device marking:**  
 Assembly site code for MLA= K  
 Assembly site code for PT2= C

Product Affected			
LMZ31503RUQR	LMZ31506HRUQT	TPS84320RUQR	TPS84620RUQT
LMZ31503RUQT	LMZ31506RUQR	TPS84320RUQT	TPS84621RUQR
LMZ31506HRUQR	LMZ31506RUQT	TPS84620RUQR	TPS84621RUQT



TI Information  
Selective Disclosure

### Qualification Report

Qualification of Power Tech (PTI) Taiwan for assembly of TPS84620RUQ in QFN (RUQ) 47 pin.  
Approved 9/13/2014

#### Product Attributes

Attributes	Qual Device: TPS84620RUQ
Assembly Site	PTI-TAIWAN
Package Family	QFN
Flammability Rating	UL 94 V-0
Wafer Fab Supplier	MIHO 8
Wafer Fab Process	LBC7

- Qual Device TPS84620RUQ is qualified at LEVEL3-260C

#### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TPS84620RUQ
PC	Preconditioning Level 3	260C	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 hours	1/77/0
UHAST	Unbiased HAST 110C/85%RH	264 hours	3/231/0
TC	Temperature Cycle, -65/150C	500 cycles	3/231/0
HTSL	High Temp Storage Bake 150C	1000 hours	1/77/0
HTOL	Life Test, 125C	1000 hours	1/77/0
MQ	MQ Assembly	(per mfg. Site specification)	Pass
MQ	MQ Test	(per mfg. Site specification)	Pass

- 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

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

TI Qualification ID: 20120917-67042

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

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USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
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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>