


<b>PCN Number:</b>	2015052000		<b>PCN Date:</b>	05/28/2015	
<b>Title:</b>	Qualification of PTI as an alternate Assembly/Test site for Hendrix RLG Family of Devices				
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services		
<b>Proposed 1<sup>st</sup> Ship Date:</b>	08/28/2015	<b>Estimated Sample Availability:</b>	Date provided upon request		
<b>Change Type:</b>					
<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		
<b>PCN Details</b>					
<b>Description of Change:</b>					
<p>Texas Instruments is pleased to announce the qualification of Powertech Technology (PTI) as an alternate Assembly and test site for Hendrix RLG Family of Devices listed below. The material set will be the same between the 2 sites.</p> <p>Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.</p>					
<b>Reason for Change:</b>					
Continuity of Supply					
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>					
None					
<b>Changes to product identification resulting from this PCN:</b>					
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)					
 <p> <b>TEXAS INSTRUMENTS</b>  MADE IN: Malaysia  2DC: 2Q:  MSL 2 /260C/1 YEAR SEAL DT  MSL 1 /235C/UNLIM 03/29/04  OPT:  ITEM: 39  <b>LBL: 5A (L)T0:1750</b>  <b>G4</b>  (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>					
<b>Topside Device marking:</b>					
Assembly site code for MLA= K					
<a href="#">Assembly site code for PT2= C</a>					
<b>Product Affected</b>					
LMZ31520RLGR	LMZ31520RLGT	LMZ31530RLGR	LMZ31530RLGT		

## Qualification Report

Qualification of Power Tech (PTI) Taiwan for assembly of LMZ31530RLG

### Product Attributes

Attributes	Qual Device: LMZ31530RLG	QBS Package: TPS84620RUQ
<b>Assembly Site</b>	PTI-TAIWAN	PTI-TAIWAN
<b>Package Family</b>	QFN	QFN
<b>Flammability Rating</b>	UL 94 V-0	UL 94 V-0
<b>Wafer Fab Site</b>	MIHO 8	MIHO 8
<b>Wafer Fab Process</b>	LBC7	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: LMZ31530RLG	QBS Package: TPS84620RUQ
PC	Preconditioning Level 3	260C	3/308/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 hours	1/77/0	1/77/0
UHAST	Unbiased HAST 110C/85%RH	264 hours	1/77/0	3/231/0
TC	Temperature Cycle, -55/125C	700 cycles	1/77/0	-
TC	Temperature Cycle, -65/150C	500 cycles	-	3/231/0
PRCL	Power Cycle, 25C	1000 hours	1/40/0	-
HTSL	High Temp Storage Bake 150C	1000 hours	1/77/0	1/77/0
HTOL	Life Test, 125C	1000 hours	1/77/0	1/77/0
ED	Electrical Characterization	Per Datasheet Parameters	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

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	<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>